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Busack, S.D.

#500 - 2024

1979 - 1983

Visnow, J.A.

#1 - 22

1982-83

catalogue

Calif.

Mexico

Spain

Morocco

# Field Catalogue

Stephen D. Busack

1979

thru

1983

SDB 500 - SDB 2024

# GAZETTEER OF MOROCCAN LOCALITIES FOR BUSACK/VISNAW (1982) COLLECTION

STANDARDIZED TO: U.S. BOARD ON GEOGRAPHIC NAMES, GAZETTEER (112), 1970.

— — — — — — — — — — — —

| BUSACK/VISNAW SPELLING | USBG SPELLING | PROVINCE | LATITUDE/LONGITUDE |
|---|---|---|---|
| ASILAH | | TÉTOUAN | 35°28'N, 6°02'W |
| ÂÏN LEUH | | MEKNÈS | 33°17'N, 5°23'W |
| BAB TAZA | | TÉTOUAN | 35°04'N, 5°12'W |
| BANASA | | KENITRA | 34°36'N, 6°07'W |
| CAP SPARTEL | | TANGER | 35°48'N, 5°56'W |
| CHECHAOUÈN | (=CHECHAOUÈNE) | TÉTOUAN | 35°10'N, 5°16'W |
| DAR CHAOUI | | TÉTOUAN | 35°34'N, 5°44'W |
| EL KSIBA | | BENI MELLAL | 32°35'N, 6°02'W |
| EL MANZLA | | TÉTOUAN | 35°36'N, 5°49'W |
| GROTTES D'HERCULES | | TANGER | 35°46'N, 5°56'W |
| JMEAA M'TAL | (=MTAL) | EL JADIDA | 32°28'N, 8°22'W |
| KENITRA | | KENITRA | 34°16'N, 6°36'W |
| KSAR-ES-SEGHIR | (=KSAR-ES-SRHIR) | TÉTOUAN | 35°51'N, 5°34'W |
| OUKAIMEDÈN | | MARRAKECH | 31°13'N, 7°52'W |
| MEHDIYA-PLAGE | | KENITRA | 34°15'N, 6°41'W |
| RABAT | | RABAT-SALÉ | 34°02'N, 6°50'W |
| SOUK-TLETA-TAGHRAMET | (=TLETA TARHREMT) | TÉTOUAN | 35°47'N, 5°28'W |
| TANGER | | TANGER | 35°48'N, 5°48'W |
| TÉTOUAN | | TÉTOUAN | 35°34'N, 5°22'W |

SDB 500 CALIFORNIA: ORANGE Co; SAN JUAN CAPISTRANO, 4.6 mi (ORTEGA HWY, RT. 74) NE HWY 5, WOODS ALONG SAN JUAN CREEK. 2 MAR 1979, D. B. WAKE, H. W. GREENE, KAY YANEV, + J. CADLE.

<u>EUMECES</u> <u>SKILTONIANUS</u>

♂, 4.08 g. KILLED 6 MAR 1979.

SDB 501 ______: TULARE Co; THREE RIVERS POST OFFICE, 6.1 mi. (SOUTH FORK ROAD) FROM, ALONG S. FORK KAWEAH RIVER. 15 FEB 1979 D.B. + T. A. WAKE.

<u>EUMECES</u> <u>SKILTONIANUS</u>

♂, 1.8 g, KILLED 26 FEB 1979.

SDB 502 ______: TULARE Co; LEMON COVE, 3.9 mi ENE (HWY 198) AT KAWEAH RECREATION AREA. 15 FEB 1979. D. B. WAKE + T. A. WAKE

<u>EUMECES</u> <u>SKILTONIANUS</u>

♂, 1.5 g, KILLED 26 FEB 1979.

SDB 503 ______: SAN DIEGO Co.; PALOMAR P.O., 6.3 mi SE IN WILL VALLEY. 3 MAR 1979. D.B. WAKE, H. W. GREENE, K. YANEV, + J. CADLE.

<u>EUMECES</u> <u>SKILTONIANUS</u>

♂, 3.40 g, KILLED 6 MAR 1979.

SDB 504 CALIFORNIA: SAN DIEGO CO; RAMONA, N. OF, PAMO VALLEY RD, 3 MI N HAVERFORD ROAD. 1600 FT. D.B. WAKE, H.W. GREENE, K. YANEV, J. CADLE. 4 MARCH 1979.

EUMECES SKILTONIANUS

♀, 4.29 g, KILLED 6 MARCH 1979.

SDB 505-506 ——: ——; CAMP WINACKA (GSA), 3.7 MI SW HWY 78/79 ON BOULDER CREEK ROAD, 4000 FT. D.B. WAKE, H.W. GREENE, K. YANEV, J. CADLE. 3 MAR 1979.

EUMECES SKILTONIANUS

505: ♂, 3.84 g, KILLED 6 MAR 1979

506: ♂, 1.25 g, KILLED 6 MAR 1979.

SDB 507 ——: RIVERSIDE CO.; CABEZON, E. PORTAL ADIT ≈ 1¼ MI (AIR) SE. 1600' 1 MARCH 1979

D.B. WAKE, H.W. GREENE, K. YANEV, + J. CADLE.

EUMECES SKILTONIANUS

♀, 4.06 g, KILLED 8 MAR 1979

SDB 508-510 ——: ——; CABEZON, CABEZON SHAFT ≈ 1½ MI SSW, 1700 FT, D.B. WAKE, H.W. GREENE, K. YANEV, + J. CADLE. 1 MAR 1979

EUMECES SKILTONIANUS

508, ♂, 3.80 g, KILLED 8 MAR 1979

509, ♀, 3.39 g, KILLED 8 MAR 1979

510, ♀, 1.03 g, KILLED 8 MAR 1979

SDB 511 CALIFORNIA: SAN DIEGO CO; VISTA, 4 mi. N, JCT. E. VISTA ROAD AND RT. 76. D.B. WAKE, H.W. GREENE, K. YANEV, J. CADLE. 4 MAR 1979

*EUMECES SKILTONIANUS*

♀, 6.02 g, KILLED 8 MAR 1979

SDB 512-513 ____: RIVERSIDE CO; APPLE CREEK ROAD, 1.5 mi. (ROAD) E. OF ITS JCT. WITH RT. 74. 4580' ELEV, J. CADLE, 5 MAR 1979

*EUMECES SKILTONIANUS*

512, ♂, 4.10 g, KILLED 8 MAR 1979
513, ♂, 3.25 g, KILLED 8 MAR 1979
(= JEC 2947, 2948)

SDB 514 ____: ____; SAN JACINTO RIVER, N. FORK, 0.5 mi. SE ON CALIF. 74. J.E. CADLE. 5 MAR 1979. 2300'.

*EUMECES SKILTONIANUS*

♂, 1.35 g, KILLED 8 MAR 1979.

SDB 515-516 ____: SHASTA CO.; MOUNTAIN GATE, 2.5 mi. NNE (AIR) AT CALAVERAS CEMENT LIMESTONE QUARRY. T.J. PAPENFUSS (#s 16839-40). 10 MAR 1979. *EUMECES SKILTONIANUS*

515, ♂, 4.29 g, KILLED 15 MARCH 1979
516, ♀, 7.69 g, KILLED 15 MARCH 1979

SDB 517 CALIFORNIA: TULARE Co; YOKOHL VALLEY, CA. 12-15 mi. BY ROAD IN FROM HWY 198. 3 FEB 1979 (KILLED 10 APR 1979), R.W. HANSEN. 2.97 g.

<u>EUMECES</u> <u>GILBERTI</u>

SDB 518 ♀ ____: MADERA Co; COARSEGOLD, CA. 5 mi. NE. 3400' 1 JAN 1979 (KILLED 10 APR 1979) R.W. HANSEN. 1.62 g ♀

<u>E.</u> <u>gilberti</u> <u>gilberti</u>

SDB 519 ♀ ___: ___; WILLOW CREEK VICINITY, 3.4 mi. E (210) jct. RD. 210 WITH 211. T 10S, R21E, SECTION 10 (SE 1/4). 20 JAN 1979 (KILLED 10 APR 1979). 3.46 g ♀ R.W. HANSEN.

<u>E.</u> <u>G.</u> <u>GILBERTI</u>

SDB 520-525 ___: TULARE Co; YOKOHL VALLEY, CA. 12-15 mi. by ROAD IN FROM HWY 198. 3 FEB 1979 (KILLED 10 APR 1979). R.W. HANSEN.

| | | | |
|---|---|---|---|
| 520 | ♀ | 17.44 g | I EXHAUSTED |
| 521 | ♀ | 15.02 g | I EXHAUSTED |
| 522 | ♂ | 16.96 g | (TESTES = 0.1001 g) |
| 523 | ♀ | 17.46 g | |
| 524 | ♀ | 3.50 g | |
| 525 | ♂ | 2.86 g | |

<u>E.</u> <u>GILBERTI</u>

SDB 526 ♂ CALIFORNIA: MADERA Co; FRESNO RIVER, 0.7 mi. (415) NW ON RAYMOND RD (=415). T 8 S, R 20 E, SEC. 16. 1500'. R.W. HANSEN. 2.66 g. ♂. 1 JAN 1979 (KILLED 10 APR)

<u>EUMECES</u> <u>g.</u> <u>gilberti</u>

SDB 527 ♂ ____: TULARE Co; YOKOHL VALLEY, CA. 12-15 mi. BY ROAD IN FROM HWY 198. 3 FEB 1979 (KILLED 10 APR 1979). 2.54 g ♂. R.W. HANSEN.

<u>E.</u> <u>gilberti</u>

SDB 528 ♂ ____: MADERA Co; COARSEGOLD, VIC. SCHOOL ALONG RAYMOND RD (=415). 2400'. 1 JAN 1979 (KILLED 10 APR 1979). R.W. HANSEN. 26.08 g ♂ (TESTES = 0.0566 g)

<u>E.</u> <u>g.</u> <u>gilberti</u>

SDB 529 ♂ ____: ____; FRIANT, W. SIDE SAN JOAQUIN RIVER AT. 5 FEB 1979 (KILLED 11 APR 1979). R.W. HANSEN. 25.43 g ♂ (TESTES = 0.1213 g)

<u>E.</u> <u>g.</u> <u>gilberti</u>

SDB 530 ♀ ____; KERN Co; CALIENTE, 5.0 mi. ENE IN CALIENTE CANYON. 10 FEB 1979 (KILLED 11 APR 1979). R.W. HANSEN. 4.88 g ♀

<u>E.</u> <u>g.</u> <u>rubricaudatus</u>

SDB 531 CALIFORNIA: KERN CO; CALIENTE, 6.3 MI.
♀ ENE IN CALIENTE CANYON. 10 FEB 1979
(KILLED 11 APR 1979). R. W. HANSEN.
2.70 g ♀
E. g. RUBRICAUDATUS

SDB 532 ___: ___; CALIENTE, 9.0 MI. ENE IN
♀ CALIENTE CANYON. 11 FEB 1979 (KILLED
11 APR 1979). R. W. HANSEN 1.19 g ♀
E. g. RUBRICAUDATUS

SDB 533 ___: ___; OILER CANYON, 1.5 MI. N.
♀ (CAL BODFISH RD) N. JCT. CAL BODFISH
RD WITH CALIENTE CREEK ROAD. 10 FEB
1979 (KILLED 11 APR 1979). R. W. HANSEN.
11.87 g ♀.
E. g. RUBRICAUDATUS

SDB 534 ___: ___; LOWER CALIENTE CANYON, ALONG
♀ CALIENTE CREEK. 10 FEB 1979 (KILLED 11 APR
1979). R. W. HANSEN. 9.87 g ♀.
E. g. RUBRICAUDATUS

SDB 535 ___: TULARE CO; YOKOHL VALLEY, CA. 12-15
♂ MI. BY ROAD IN FROM HWY 198. 3 FEB
1979 (KILLED 11 APR 1979). R. W. HANSEN.
20.98 g ♂ (TESTES = 0.1536 g)
E. GILBERTI

SDB 536 ♂ CALIFORNIA: KERN CO; 1.7 mi. (ROAD) NNW JCT. BENA ROAD AND CAL BODFISH ROAD. 10 FEB 1979 (KILLED 11 APR 1979). R.W. HANSEN. 5.27g. ♂

*E. g. RUBRICAUDATUS*

SDB 537-538 ___: ___; CALIENTE, 1.2 mi. (RD) W. AT TRIBUTARY TO CALIENTE CREEK. 10 FEB 1979 (KILLED 11 APR 1979). R.W. HANSEN.

537 ♀ 4.46g
538 ♂ 2.06g.

*E. g. RUBRICAUDATUS*

SDB 539-541 ___: SAN DIEGO CO; DULZURA, CA. 13 km (AIR) NE (ON LYONS VALLEY ROAD NEAR INTERSECTION WITH PRIVATE ROAD TO BARRETT HONOR CAMP). 28 MAR 1979 (KILLED* 12 APRIL 1979). S.D. BUSACK & J.A. VISNAW.

*E. SKILTONIANUS*

539 ♂ 4.00g (TESTES = 0.0430g) [*DIED IN NIGHT]
540 ♀ 3.60g
541 ♀ 5.74g.

SDB 542 ♀ CALIFORNIA: RIVERSIDE CO; LAKE HEMET (N. SHORE AT END OF PAVED ROAD TO PARK). 26 MAR 1979 (KILLED 12 APR 1979). S.D. BUSACK + J.A. VISNAW. 5.42 g.

*EUMECES SKILTONIANUS*

SDB 543 ♀ ___: ___; AVERY CANYON, GIBBEL ROAD AT MOUTH OF. 30 MARCH 1979 (KILLED 12 APR 1979). J.E. CADLE. 4.04 g ♀

*E. SKILTONIANUS*

SDB 544 ♀ ___: KERN CO; CALIENTE, 4.3 mi. ENE IN CALIENTE CANYON. 11 FEB 1979 (KILLED 13 APR 1979). R.W. HANSEN 17.58 g ♀

*E. gilberti RUBRICAUDATUS*

SDB 545 ♀ ___: ___; ___, 9.0 mi. ENE IN CALIENTE CANYON. 11 FEB 1979 (KILLED 13 APR 1979). R.W. HANSEN 16.43 g ♀

*E. g. RUBRICAUDATUS*

SDB 546-551 ~~♀~~ ___: ___; ___, 1.8 mi. ENE IN CALIENTE CANYON. 17 FEB 1979 (KILLED 13 APR 1979). R.W. HANSEN. 2.19 g ♀.

*E. g. RUBRICAUDATUS*

546 = ♀ 2.19 g, 547 = ♀ 2.24 g, 548 = ♂ 3.34 g,
549 = ♀ 5.36 g, 550 = ♂ 2.03 g, 551 = ♀ 12.47 g.

SDB 552 CALIFORNIA: KERN CO; CLEAR CREEK, [3600']
CA. 3 MI. (RD) FROM HWY 58 VIA
HART FLAT. 18 FEB 1979 (KILLED 13
APR 1979). R.W. HANSEN 15.11 g. ♀

<u>EUMECES GILBERTI RUBRICAUDATUS</u>

SDB 553-554 ___: ___; KERN RIVER CANYON, STORK CREEK
JUST ABOVE JCT. WITH HWY 178 (KERN
RIVER). 19 FEB 1979 (KILLED 13 APR 1979).
R.W. HANSEN.

<u>E. g. RUBRICAUDATUS</u>

553 = 2.08 g ♂
554 = 1.98 g ♀

SDB 555 ♀ ___: ___; KERN RIVER BRIDGE, 2.8 MI. N.
(RANCHERIA ROAD). 1200' R.W. HANSEN.
17.52 g ♀. 19 FEB 1979 (KILLED 17 APR 1979).

<u>E. g. RUBRICAUDATUS</u>

SDB 556 ♀ ___: ___; KERN RIVER CANYON, LUCAS CREEK
JUST ABOVE JCT. w/ HWY 178 (KERN RIVER).
3 MAR 1979 (KILLED 17 APR 1979). R.W.
HANSEN. 10.09 g ♀

<u>E. g. RUBRICAUDATUS</u>

SDB 557 ♀ CALIFORNIA: RIVERSIDE CO; LAKE MATHEWS, 2 MI. WSW OF ON CAVALCO ROAD. 3 APR 1979 (KILLED 17 APR 1979). S. ARNOLD. 10.20g ♀

*EUMECES SKILTONIANUS*

SDB 558 ♂ ___: TEHAMA CO; MINERAL, CA. 10 MI. W. (CA. HWY 36). 3000'. J. HANKEN. 25 MARCH 1979 (KILLED 17 APRIL 1979). 5.37g. ♂ TESTES: 0.1568g.

*EUMECES SKILTONIANUS*

SDB 559 ♂ ___: RIVERSIDE CO; HEMET, 3 MI. S. ON NE SLOPES OF SANTA ROSA HILLS. 25 MAR 1979 (KILLED 17 APR 1979), 1.49g ♂. J.E. CADLE (# JEC 2976).

*E. SKILTONIANUS*

SDB 560 ♀ ___: ___; ___, 3 MI. S. (GIRARD RD), N. SLOPE SANTA ROSA HILLS. 30 MAR 1979 (KILLED 17 APR 1979). 1.59 g. ♀ J.E. CADLE (JEC # 2983).

*E. SKILTONIANUS*

SDB 561–564 CALIFORNIA: MARIN Co; NOVATO, 6 mi. W. 7 APRIL 1979 (KILLED 17APR1979). S. ARNOLD.

E. (EUMECES) SKILTONIANUS

I EXHAUSTED 561: ♀ : 6.78 g

EXHAUSTED 562: ♂ : 5.85 g TESTES 0.0776 g

I EXHAUSTED 563: ♂ : 5.75 g TESTES 0.0821 g.

564: ♀ : 9.80 g.

SDB 565–566 ___: TULARE Co; 7.4 mi. N (DRY CREEK RD) RD. 216. FEB 1979 (KILLED 18APR1979). R. GONZALES.

E. GILBERTI

565 ♂ 13.80 g (TESTES 0.1469 g)

566 ♂ 14.81 g (TESTES 0.1218 g)

SDB 567 ♂ ___: KINGS Co; AVENOL, 5 mi. SW IN TAR CANYON AT REEF RIDGE. 7. MAR 1979 (KILLED 18APR1979). R.W. HANSEN.

E. g. CANCELLOSUS X RUBRICAUDATUS

567 ♂ 18.05 g (TESTES 0.2177 g)

SDB 568–569 ___: KERN Co; GREENHORN CREEK, ABOVE jcT. HWY 178, NORTHSIDE KERN RIVER CANYON. 11MAR1979 (KILLED 18APR1979). R.W. HANSEN.

E. G. RUBRICAUDATUS

568 ♀ 13.82 g

569 ♂ 25.23 g (TESTES 0.2282 g)

SDB 570-574 CALIFORNIA: KERN CO; KEENE, 2.4 mi. SE ALONG HWY 58 (ADJ. TO TEHACHAPI CREEK). 17 MAR 1979 (KILLED 18 APR 1979) R.W. HANSEN.

Eumeces gilberti rubricaudatus

| | | |
|---|---|---|
| 570 | ♀ | 1.73 g. |
| 571 | ♂ | 2.89 |
| 572 | ♀ | 2.67 |
| 573 | ♀ | 1.98 |
| 574 | ♂ | 2.98 |

SDB 575-577 ___: ___; KEENE, 6.5 mi. SE ALONG HWY 58. 17 MAR 1979 (KILLED 19 APR 1979). R.W. HANSEN.

E. g. rubricaudatus

| | | |
|---|---|---|
| 575 | ♀ | 9.18 g |
| 576 | ♀ | 2.00 |
| 577 | ♂ | 2.58 |

SDB 578-579 ___: ___; KEENE, W. OF, AT CLEAR CREEK N. OF HWY 58. 17 MAR 1979 (KILLED 19 APR) R.W. HANSEN.

E. g. rubricaudatus

| | | |
|---|---|---|
| 578 | ♀ | 2.32 g |
| 579 | ♂ | 2.23 |

SDB 580 CALIFORNIA: KERN Co; COTTONWOOD CREEK
♀ AT HWY 178 (JUST BELOW MOUTH KERN CANYON) 18 MAR 1979 (KILLED 19 APR 1979). R.W. HANSEN. 1.66 g ♀

<u>E. g. RUBRICAUDATUS</u>

SDB 581 ____: ____; 4.5 mi. N. (RANCHERIA RD)
♂ KERN RIVER BRIDGE. 18 MAR 1979 (KILLED 19 APR 1979) R.W. HANSEN. 23.67 g. ♂ (TESTES 0.2582 g)

<u>E. g. RUBRICAUDATUS</u>

SDB 582 ____: ____; 3.0 mi. N. (RANCHERIA RD)
♂ KERN RIVER BRIDGE. 18 MAR 1979 (KILLED 19 APR 1979) R.W. HANSEN. 9.06 g ♂ (TESTES 0.0562 g)

<u>E. g. RUBRICAUDATUS</u>

SDB 583-586 ____: ____; 2.8 mi. N. (RANCHERIA RD) KERN RIVER BRIDGE, 1200'. 18 MAR 1979 (KILLED 19 APR [583 + 584] AND 20 APR [585-586]). R.W. HANSEN.

<u>E. g. RUBRICAUDATUS</u>

583 ♀ 6.99 g
584 ♀ 10.07
585 ♂ 9.71 (TESTES 0.0893 g)
586 ♀ 11.11

SDB 587-591 CALIFORNIA: TULARE Co.; 1.2 mi. N. (DRY CREEK DR.) RD. 216. 13 MAR 1979 (KILLED 20 APR 1979). R.W. HANSEN. (R. GONZALES)

E. G. GILBERTI

| | | | |
|---|---|---|---|
| 587 ♂ | 13.94 g. | (TESTES | 0.1774) |
| 588 ♂ | 5.01 | ( " | 0.0221) |
| 589 ♂ | 5.34 | ( " | 0.0594) |
| 590 ♀ | 6.30 | | |
| 591 ♂ | 6.18 | (TESTES | 0.0663) |

SDB 592 ♀ ____: ___; THREE RIVERS, 0.25 mi. S. EDISON POWERHOUSE # 3. 13 MAR 1979 (KILLED 20 APR). R. GONZALES, 1250', 11.85 g ♀.

E. g. gilberti

SDB 593 ♀ ____: FRESNO Co; TULARE Co. LINE, 2.2 mi. E. ON SAND CREEK ROAD. 1200'. R. GONZALES. 15 MAR 1979 (KILLED 20 APR 1979). 3.56 g ♀

E. g. gilberti

SDB 594-596. OREGON: DOUGLAS Co.; UMPQUA, 4.7 mi. W. OF BRIDGE AT UMPQUA, S. SIDE UMPQUA RIVER. 10 APR 1979 (KILLED 20 APR). D.B., T.A, AND T.B. WAKE.

E. SKILTONIANUS

| | | |
|---|---|---|
| 594 ♂ | 2.12 g | L. TESTIS SLIGHTLY LARGER |
| 595 ♂ | 7.37 g | (TESTES 0.1527 g) |
| 596 ♀ | 9.16 g | |

SDB 597 CALIFORNIA: FRESNO CO.; 2.2 MI. E. TULARE
♀ CO. LINE ON SAND CREEK RD. 15MAR1979
(KILLED 23 APR). R.W. HANSEN. 3.36g ♀
EUMECES g. GILBERTI

SDB 598- ___: ___; LOS GATOS COUNTY PARK, 2.7 MI.
601 WNW (RD), IN LOS GATOS CREEK CANYON.
24 MAR 1979 (23 APRIL: KILLED) R.W. HANSEN.
E. g. RUBRICAUDATUS X g. CANCELLOSUS

598 ♂ 2.28g. TESTES EQUAL IN LENGTH
599 ♀ 1.87g.
600 ♀ 2.58g
601 ♂ 15.40g TESTES WT. 0.0746g.

SDB 602 ___: ___; LOS GATOS COUNTY PARK, 0.7 MI.
♂ WNW (ROAD), LOS GATOS CREEK CANYON.
24 MAR 1979 (KILLED 23APR1979). R.W.
HANSEN. 1.79g ♂ (TESTES EQUAL LENGTH)
E. g. RUBRICAUDATUS X g. CANCELLOSUS

SDB 603- ___: ___; TOLLHOUSE, CA. 1 MI. NE AT
604 STAEBLER RANCH. 25 MARCH 1979 (KILLED
23 APR 1979). R.W. HANSEN.
E. G. GILBERTI

603 ♂ 23.46g. TESTES WEIGHT 0.1468
604 ♀ 1.92g

SDB 605-608 CALIFORNIA: KERN CO.; CASTAC LAKE, VIC. OF (E. OF LEBEC), ON DRYFIELD ROAD. TEJON RANCH. 31 MAR 1979 (KILLED 23 APR [605-606] AND 24 APR [607-608] 1979). R.W. HANSEN.

EUMECES GILBERTI RUBRICAUDATUS

| | | | |
|---|---|---|---|
| 605 | ♂ | 2.26g | TESTES EQUAL LENGTH |
| 606 | ♀ | 1.92 | |
| 607 | ♀ | 2.24 | |
| 608 | ♂ | 22.80 | TESTES WT. 0.1377g. |

SDB 609 ♂ ___: ___; 4.5 mi. E. INTERSTATE 5 ON DRYFIELD RD. (E. LEBEC), TEJON RANCH. 31 MAR 1979 (KILLED 24 APR). R.W. HANSEN.

E. g. RUBRICAUDATUS

2.08g ♂, RIGHT TESTIS 1.5X LEFT TESTIS

SDB 610-612 ___: ___; 4.7 mi. E. INTERSTATE 5 ON DRYFIELD RD. (E. LEBEC), TEJON RANCH. 31 MAR 1979 (KILLED 24 APR). R.W. HANSEN.

~~1.58 g. ♀~~ SDB [TAIL BROKEN AFTER WT.]

E. g. RUBRICAUDATUS

| | | | |
|---|---|---|---|
| 610 | ♀ | 1.58g | |
| 611 | ♂ | 3.02g | R. TESTIS 1½ X L. |
| 612 | ♀ | 16.49g | |

SDB 613-617 CALIFORNIA: KERN Co; BEAR TRAP CANYON, DRYFIELD RD. AT TEJON RANCH. 31 MAR 1979 (KILLED 24APR [613-616] AND 25APR [617] 1979). R. W. HANSEN.

*Eumeces gilberti rubricaudatus*

| | | | |
|---|---|---|---|
| 613 | ♂ | 28.43g | TESTES WT. 0.1187 |
| 614 | ♀ | 1.73 | |
| 615 | ♂ | 1.70 | R. TESTIS 1.5 X L. |
| 616 | ♀ | 1.46 | |
| 617 | ♂ | 1.68 | |

SDB 618-621 ___: ___; ARVIN, 5 mi. SSE (AIR) ON COMANCHE POINT ROAD. 1 APR 1979 (KILLED 25APR). R.W. HANSEN.

*E. g. rubricaudatus*

| | | | |
|---|---|---|---|
| 618 | ♂ | 14.64 g | TESTES WT. 0.1692 |
| 619 | ♀ | 14.33 | |
| 620 | ♂ | 3.68 | TESTES EQUAL |
| 621 | ♀ | 4.00 | |

SDB 622 ♂ ___: ___; CUMMINGS VALLEY RD, 2.5 mi. BY RD. W. JCT. HWY 202 (NORTH OF BRITE VALLEY RECREATION AREA). 1 APR 1979 (KILLED 25APR). R.W. HANSEN. 15.93 g. ♂ TESTES WT. 0.1548 g.

*E. g. rubricaudatus*

SDB 623- CALIFORNIA: KERN CO.; CALIENTE, 2.0 MI.
624 ENE IN CALIENTE CREEK CANYON. 1 APR 1979 (KILLED 25 APR 1979). R.W. HANSEN

EUMECES GILBERTI RUBRICAUDATUS

623 ♀ 13.18 g
624 ♀ 18.96 g

SDB 625- ___: ___; HWY 178, 0.1 MI. ABOVE
627 JCT WITH KERN RIVER (STORK CREEK), KERN CANYON. 1 APR 1979 (KILLED 25 APR). R.W. HANSEN.

E. g. RUBRICAUDATUS

625 ♀ 1.33 g (-DIED - NO SAMPLES.)
626 ♀ 2.40
627 ♀ 2.49

SDB 628- ___: ___; BRECKENRIDGE MTN, W. SLOPE ON
632 BRECKENRIDGE RD. 3400' 14 APR 1979 (KILLED 1 MAY 1979). R.W. HANSEN

E. g. RUBRICAUDATUS

628 ♂ 27.57 g (TESTES 0.2295 g)
629 ♀ 18.70 g
630 ♂ 22.93 g (TESTES 0.2000 g)
631 ♀ 22.75 g
632 ♂ 26.44 g (TESTES 0.1594 g)

SDB 647 ♂ CALIFORNIA: KERN Co.; KEENE, 3.0 mi. W. (HWY 58). S. SIDE HWY. 22 APR 1979 (KILLED 2 MAY 1979). R. W. HANSEN. (1.90g ♂)

EUMECES GILBERTI RUBRICAUDATUS

SDB 648-655 ____: MENDOCINO Co; FLYNN CREEK RD, 6 mi. E. JCT. Orr Springs RD (ON ORR Sprgs Rd). 28-29 APR 1979 (KILLED 4 MAY [648-652] + 15 MAY [653-655])

ZOOL. 165 FIELD TRIP: D.B. WAKE + H.W. GREENE.

E. SKILTONIANUS

| | | | |
|---|---|---|---|
| 648 | ♂ | 5.10g | (TESTES 0.0823g) |
| 649 | ♀ | 8.37 | YOLKED EGGS |
| 650 | ♀ | 7.60 | |
| 651 | ♀ | 2.89 | |
| 652 | ♂ | 6.22g | (TESTES 0.1662g -- DIED) |
| 653 | ♂ | 7.46 | (TESTES 0.0564g) |
| 654 | ♀ | 5.95 | |
| 655 | ♂ | 1.23 | |

~~65~~

SDB 656-666 CALIFORNIA: MENDOCINO Co; YORKVILLE, 1 mi SE. 28-29 APR 1979 (KILLED 15 [656-662] AND 16 [663-666] MAY). ZOOL. 165 CLASS, D.B. WAKE, H. GREENE.

EUMECES SKILTONIANUS

| | | | |
|---|---|---|---|
| 656 | ♂ | 1.25 g | |
| 657 | ♂ | 4.24 | [TESTES 0.0631] |
| 658 | ♂ | 3.11 | |
| 659 | ♀ | 6.58 | |
| 660 | ♀ | 8.20 | |
| 661 | ♀ | 1.74 | |
| 662 | ♀ | 1.49 | |
| 663 | ♂ | 1.26 | |
| 664 | ♂ | 5.23 | [TESTES 0.0661 g] |
| 665 | ♂ | 1.84 | RIGHT TESTIS 1½ X LEFT |
| 666 | ♀ | 4.10 | |

SDB 667-668 ——: ——; HIGHWAY 1, 34 mi. SE ON HWY 128. 28-29 APR 1979 (KILLED 16 MAY). ZOOL. 165 CLASS. D.B. WAKE, H. GREENE.

E. SKILTONIANUS

| | | | |
|---|---|---|---|
| 667 | ♀ | 3.40 g | |
| 668 | ♂ | 1.87 g | RIGHT TESTIS 1½ X Left |

SDB 669- CALIFORNIA: MENDOCINO CO; FLYNN CREEK
677 RD, 1.5-2 mi. N. HWY 128. 28-29 APR
1979 (KILLED 16 MAY [669-671] AND 17 MAY
[672-677]). ZOOL. 165, D.B. WAKE &
H.W. GREENE.

EUMECES SKILTONIANUS

| | | | |
|---|---|---|---|
| 669 | ♂ | 6.48 g | [TESTES 0.0673 g] |
| 670 | ♀ | 5.56 g | |
| 671 | ♀ | 4.53 g | |
| 672 | ♂ | 2.73 g | |
| 673 | ♀ | 2.63 g | |
| 674 | ♂ | 4.38 g | [TESTES 0.0395 g] |
| 675 | ♀ | 7.01 g | |
| 676 | ♂ | 4.94 g | [TESTES 0.0438 g] |
| 677 | ♂ | 0.85 g | |

SDB 678 ___: SONOMA CO.; SKAGGS SPRINGS AREA
♂ 27 APR 1979 H.W. GREENE. [TESTES 0.0285 g]
E. SKILTONIANUS ♂, 4.03 g, KILLED 17 MAY.

SDB 679- ___: MENDOCINO CO; NAVARRO, CA. 1 mi. SE
681 (HWY 128). ZOOL. 165, D. WAKE & H.W. GREENE.
28-29 MAY 1979 (KILLED 18 MAY 1979).

E. SKILTONIANUS

| | | | |
|---|---|---|---|
| 679 | ♀ | 9.09 g | YOLKED EGGS |
| 680 | ♀ | 7.94 g | |
| 681 | ♀ | 7.99 g | YOLKED EGGS |

SDB 682- CALIFORNIA: CALAVARAS Co; SAN ANDREAS,
683 0.2 MI. S. (HWY 49). R. GONZALES.
13 APR 1979 (KILLED 18 MAY).

<u>EUMECES</u> <u>GILBERTI</u>

682 ♀ 17.97 g
683 ♀ 14.42 g

SDB 684 ___: TULARE Co; HARTLAND VIC., 4600'
♀ 24 APR 1979 (KILLED 18 MAY 1979). R.W. HANSEN.
♀, 10.50 g, <u>E.</u> <u>G.</u> <u>GILBERTI</u>.

SDB 685 ___: KERN Co.; TEJON RANCH, TEJON CREEK
♀ CANYON (SUMMIT OLD TETON PASS). 5 MAY 1979
5400' elev. ♀, 10.86 g (KILLED 18 MAY)
R.W. HANSEN.

<u>E.</u> <u>g.</u> <u>RUBRICAUDATUS</u>

SDB 686 ___: INYO Co; CHINA LAKE NAVAL WEAPONS TESTING,
ARGUS MTS., VIC. BERTRAM SPRING. 5 MAY 1979
1.85 g, (KILLED 18 MAY 1979). A.E. STAEBLER

<u>E.</u> <u>g.</u> <u>RUBRICAUDATUS</u>

SDB 687- ___: TULARE Co; HARTLAND VIC, 4600'
688 24 APR 1979 (KILLED 23 MAY 1979). R.W.
HANSEN.

<u>E.</u> <u>g.</u> <u>GILBERTI</u>

687 ♂ 3.55 g TESTES 0.0285 g
688 ♂ 15.96 g 0.1545 g

SDB 633–637 CALIFORNIA: KERN CO; CALIENTE, 1 MI. W. (AIR) ALONG TRIBUTARY TO CALIENTE CREEK. 1200' 14 APR 1979 (KILLED 1 MAY 79). R.W. HANSEN.

EUMECES GILBERTI RUBRICAUDATUS

| | | | |
|---|---|---|---|
| 633 | ♀ | 3.16 | |
| 634 | ♂ | 9.52 | (TESTES 0.1036 g) |
| 635 | ♂ | 18.64 | ( " 0.1633 g) |
| 636 | ♀ | 18.70 | |
| 637 | ♀ | 18.52 | |

SDB 638–646 ___: MADERA CO.; COARSEGOLD, S. SIDE HWY 41 AT. 17 APR 1979 (KILLED 2 MAY 79) R.W. HANSEN.

E. g. gilberti

| | | | |
|---|---|---|---|
| 638 | ♂ | 26.13 g | (TESTES 0.1888 g) |
| 639 | ♂ | 13.42 | ( " 0.1289 g) |
| 640 | ♂ | 13.46 | ( " 0.0820 g) |
| 641 | ♂ | 26.54 | ( " 0.2124 g) |
| 642 | ♀ | 7.03 | |
| 643 | ♀ | 18.59 | |
| 644 | ♀ | 16.80 | [DIED IN NIGHT] |
| 645 | ♂ | 20.21 | (TESTES 0.1045 g) |
| 646 | ♀ | 1.49 | |

SDB 689 CALIFORNIA: LOS ANGELES Co; SANTA CATALINA
♂ ISLAND, RENTON MINE RD, CA. 0.75 mi.
FROM JCT WITH MT. ADA RD. 22 APR
1979 (KILLED 6 JUL 1979). W. WRIGHT: COLL
(REC'D FROM M.B. RUGGLES, LACM). (LOCALITY
IS SE OF AVALON ON slopes above
Pebbly BEACH).

EUMECES SKILTONIANUS

♂ 7.61 g. TESTES 0.0188 g.

SDB 690-691 ♂♂ ___: SHASTA CO.; JONES VALLEY. 10 APR
1979 (KILLED 6 JUL 79). K. & T. WRIGHT
(REC'D FROM M.B. RUGGLES, LACM).

E. SKILTONIANUS

| | | | |
|---|---|---|---|
| 690 | 6.76 g | TESTES | 0.0096 |
| 691 | 4.64 g | TESTES | 0.0072 |

SDB 692 ♀ ___: FRESNO CO; SHAVER LAKE VICINITY.
CA. 5500'. 19 MAY 1979 (KILLED 13 JUL 1979).
R.W. HANSEN. ♀, 12.13 g.

E. GILBERTI

SDB 693-697 MÉXICO: VERACRUZ; LAS VIGAS, 12.5-14.0 km SSW ON MICROONDAS ROAD. 24 JULY 1979 (KILLED 8AUG1979). T.J. PAPENFUSS, S.K. SESSIONS, D.B. & T.A. WAKE (= DBW 725-729, 1979).

EUMECES

| | | | | |
|---|---|---|---|---|
| 693 | ♂ | 4.30g | TESTES | 0.0849g |
| 694 | ♂ | 5.23g | " | 0.0849 |
| 695 | ♂ | 2.58g | " | 0.0571 |
| 696 | ♀ | 5.13g | | |
| 697 | ♀ | 3.08g | | |

SDB 698-700 MÉXICO: VERACRUZ; BARRANCA DE TEOCELO, N. TEOCELO. 1070m. 23 JULY 1979 (KILLED 9 AUG 1979). T.J. PAPENFUSS, S.K. SESSIONS, D.B. & T.A. WAKE (= DBW 608-606)

SCINCELLA

| | | |
|---|---|---|
| 698 | ♀ | 2.29g |
| 699 | ♀ | 2.64g |
| 700 | ♀ | 2.08g |

SDB 701–709 MÉXICO: TAMAULIPAS; GOMEZ FARIAS, 3.5 mi. NW (AIR) AT RANCHO DEL CIELO. (TRAIL TO AGUA LINDA ≈ 3.5 mi. W. [AIR] RANCHO [= 6 mi. NW (AIR) GOMEZ]) 6000'. 16AUG1979 (KILLED 5 SEP 1979). S.D. Busack + J. F. LYNCH.

*Eumeces brevirostris*

| | | | |
|---|---|---|---|
| 701 | ♀ | 6.11 g | |
| 702 | ♀ | 4.23 g | |
| 703 | ♂ | 2.25 g | TESTES 0.0221 g |
| 704 | ♂ | 1.06 g | —— |
| 705 | ♂ | 0.79 g | —— |
| 706 | ♂ | 5.42 g | TESTES 0.0216 g |
| 707 | ♀ | 5.26 g | |
| 708 | ♂ | 0.77 g | —— |
| 709 | ♂ (?) | 0.52 g | —— |

SDB 710–711 ——: ——; ——, ——. 18AUG1979 (KILLED 11 SEP 1979). S.D. Busack + J. F. LYNCH.

*E. brevirostris*

| | | | |
|---|---|---|---|
| 710 | ♀ | 5.32 g | |
| 711 | ♂ | 5.53 g | TESTES 0.0755 g |

SDB 712 México: Queretaro; Madroño, 8.2 km (Road) NW on dirt road to Tres Lagunas (1925 m elev.). S.D. Busack J.F. Lynch. 23 Aug 1979 (Killed 11 Sep 79)

Eumeces lynxei

♀ 5.64 g.

SDB 713-719 México: San Luis Potosi; San Luis Potosi, 39 km (Rd) E. on Mexican Hwy 70 at road to Microwave Station. 2575 m. elev. 24 August 1979 (killed 11-Sept 79, 12 Sept) S.D. Busack & J.F. Lynch.

Eumeces lynxe

| | | | | |
|---|---|---|---|---|
| Killed 11 Sep 79 | 713 | ♂ | 1.17 g | |
| | 714 | ♂ | 3.97 g | Testes: 0.0790 g |
| | 715 | ♀ | 4.48 g | |
| Killed 12 Sep 79 | 716 | ♀ | 0.70 g | |
| | 717 | ♀ | 0.80 g | |
| | 718 | ♀ | 1.35 g | |
| | 719 | ♀ | 4.23 g | |

SDB 720-721 México: Nuevo Leon; Galeana, 35 km (Rd) NNW at Cerro Potosí near microwave station. 3150 m. elev. 26 Aug 1979 (Killed 12 Sep 1979). S.D. Busack & J.F. Lynch.

Eumeces

| | | | |
|---|---|---|---|
| 720 | ♂ | 1.84 g | Testes 0.0065 |
| 721 | ♀ | 3.75 g | |

SDB 722- MÉXICO: NUEVO LEÓN; PABLILLO, 9.3 km
725 (RD) S. ON STATE HWY. 51. 2290 m.
27AUG1979 (KILLED 13 SEP79). S.D. Busack +
J.F. LYNCH.

EUMECES

| | | | |
|---|---|---|---|
| 722 | ♂ | 0.40g | |
| 723 | ♀ | 1.27g | |
| 724 | ♀ | 2.77g | |
| 725 | ♂ | 2.97g | TESTES 0.0373g. |

SDB ____: VERACRUZ; LA JOYA. 2125 m.
726 T.J. PAPENFUSS, S.K. SESSIONS, T.A. + D.B. WAKE.
25 JUL 1979 (KILLED 18 SEP 1979). [=DBW 738]
1.84g. ~~Eumeces~~ CELESTUS ENNEACRAMMUS

SDB 727- CALIFORNIA: MONTEREY CO.; MONTEREY,
728 CA. 38 km SSE AT HASTINGS NATURAL HISTORY
RESERVATION. S.K. SESSIONS 17-18 NOV 1979
(KILLED 27 NOV 1979).

EUMECES SKILTONIANUS

727 ♂ 1.44g Blue tail
728 ♂ 5.33g (Bluish tail at mid-point) TESTES 0.0675g.

SDB 729 ____: ____; IBID, Carmel Valley Rd (G-16), 1.4 mi.
SE SOUTHERN JCT CACHANGA RD. AND 1.4 mi.
NW JCT MARTIN RD, entrance to HASTINGS
K. YANEV. 19NOV1979 (KILLED 27NOV79).
♀ EUMECES SKILTONIANUS, Blue Tail, 1.26g.

SDB 730 ♀ CALIFORNIA: EL DORADO Co.; SOMERSET, 1.0 mi. S, 4.5 mi. E. AT 2900' 20 JAN 1980 (KILLED 12 FEB 1980). J. HAFFNER.

♀, 1.72g.

Eumeces skiltonianus

SDB 731 ♂ ___: PLACER Co.; AUBURN, 2.5 mi. NE (AIR) AT FORESTHILL BRIDGE. MATURE CHAPPARRAL TRANSECT. R.L. SEIB (6809) AND T.J. PAPENFUSS. TESTES, 0.0018g. (NOT SAVED)

E. skiltonianus ♂ 3.06g.

TISSUE ONLY, NO CHROMOSOMES.

SDB 732 ♂ ___: CALAVERAS Co.; WEST POINT, 1.7 mi. E (AIR), BEAR CLOVER - PINE, 2800'. T.J. PAPENFUSS (17075). 1 MAR 1980 (KILLED: 26 MAR). 11.75g, TESTES: 0.1391g.

E.

SDB 733-734. ___: ___; MOKELUMNE HILL, 4.5 mi. ESE (AIR), JESUS MARIA - CHAPARRAL TRANSECT, 1800'. T.J. PAPENFUSS (17089-17090). 2 MAR (26 MAR) 1980.

733 ♀ 10.10g, TAIL: underside salmon, dorsum w/ blue flecks.

734 ♀ 2.44g, Tail: Bluish.

SDB 735 CALIFORNIA: EL DORADO Co.; SOMERSET,
♂ 1.0 mi. S, 4.5 mi. E. AT 2900'. 5 MAR (26 MAR)
1980. J. HAFNER. 1.41 g

<u>EUMECES</u>

SDB 736 ___: AMADOR Co.; FIDDLETOWN, 3.0 mi. SE
♀ (AIR). RANCHERIA CREEK - OAK WOODLAND
TRANSECT. 2200'. T. J. PAPENFUSS, R. L.
SEIB (6853). 8 MAR (26 MAR) 1980.
9.98 g.

<u>E.</u>

SDB 737-740 ___: CALAVERAS Co.; WEST POINT, 4.2
mi. WSW (AIR). DUNLAP OAK TRANSECT,
2600'. 8 MAR (26 MAR) 1980. T. J. PAPENFUSS,
R. L. SEIB (6859, 6861-6863).

| | | | | |
|---|---|---|---|---|
| 737 | ♂ | 1.76 g | TESTES: | .0018 |
| 738 | ♂ | 9.06 g | | .0947 |
| 739 | ♂ | 1.97 g | | .0008 |
| 740 | ♂ | 1.44 g | | .0007 |

<u>E.</u>

SDB 741-743. ___: TUOLUMNE Co.; MOCCASIN, 3.5 mi. SW
(AIR), DON-PEDRO GRASSLAND TRANSECT, 1200'.
T. J. PAPENFUSS, R. L. SEIB (6879-80, 6892).
9 MAR (26 MAR) 1980.

| | | | |
|---|---|---|---|
| 741 | ♀ | 16.38 g | TAIL: SALMON VENTER, BLUE DORSAL SPOTS |
| 742 | ♀ | 6.61 | |
| 743. | ♂ | 2.52 | TESTES: 0.0016. |

<u>E.</u>

SDB 744-746 CALIFORNIA: TUOLUMNE Co.; CHINESE CAMP, 1.8 mi. SW (AIR). RED HILLS, DIGGER PINE TRANSECT, 1200'. T. J. PAPENFUSS, R.L. SEIB (6887-6889). 9 MAR (26 MAR) 1980.

| | | | | |
|---|---|---|---|---|
| | 744 | ♀ | 5.11 g | TAIL: BLUEISH DORSUM, GREY VENTER |
| Blue tail | 745 | ♂ | 8.88 g | TESTES: 0.0751 g |
| Regenerated tail | 746 | ♂ | 12.37 g | 0.1556 |

Eumeces

SDB 747 ___: DEL NORTE Co.; 2.2 mi. (Rd) SSE HWY 299 AT SPUR OF FRENCH HILL RD. 400 ~~mi.~~ m. 15 MAR (26 MAR) 1980. J. CADLE, A. LARSON, D. B. WAKE. ♀ 8.40 g. (Blue tail dorsum & ventral).

E.

SDB 748-752 ___: ___; 3.3 mi. (RD) N. JCT. 197 ON LOW DIVIDE ROAD. 450 m. 15 MAR (26 MAR) 1980. J. CADLE, A. LARSON, D. B. WAKE.

| | | | |
|---|---|---|---|
| 748 | ♂ | 0.97 g | |
| 749 | ♂ | 2.21 | TESTES: .0006 |
| 750 | ♂ | 5.08 | .1268 |
| 751 | ♂ | 5.22 | .1557 |
| 752 | ♀ | 6.44 | |

SDB 753-754. ♂♂ CALIFORNIA: HUMBOLDT Co.; LEGGETT, 0.8 mi. (Rd) S. AT DRIVE THRU TREE. 16MAR (26MAR) 1980. J. CADLE, A. LARSON, D. WAKE.

753 ♂ 1.64 g.

754 ♂ 1.27 g.

<u>EUMECES</u> <u>SKILTONIANUS</u>

SDB 755 ♂ ___: ___; 2.6 mi. (Rd) N. JCT HARRIS ROAD ON ALDERPOINT ROAD. 16MAR (26MAR) 1980. J. CADLE, A. LARSON, D. WAKE.

♂ 8.92g, TESTES: 0.2042 SALMON TAIL VENTRAL, BLUE DORSUM

<u>EUMECES</u> <u>SKILTONIANUS</u>

SDB 756-759 ___: MENDOCINO Co.; USAL, 4.1 mi. (Rd) S. 16MAR (26MAR) 1980. J. CADLE, A. LARSON, D. B. WAKE.

| | | | |
|---|---|---|---|
| 756 | ♂ | 1.42g | |
| 757 | ♂ | 6.45 | TESTES: 0.1813 |
| 758 | ♂ | 6.69 | TESTES: 0.1793 |
| 759 | ♀ | 8.24 | |

<u>EUMECES</u> <u>SKILTONIANUS</u>

SDB 760 - 761 ♀♀ CALIFORNIA: SAN DIEGO CO.; WILL VALLEY, SE PALOMAR JCT., AT EXTREME NW EDGE OF VALLEY WHERE CREEKS COME TOGETHER. 3700'. 19 MAR (16 APR) 1980. K. YANEV, D. WAKE, J. HANKEN, C. BROWN.

<u>EUMECES</u> <u>SKILTONIANUS</u>

760 ♀ 4.01g
761 ♀ 4.94g

SDB 762 ♂ ___: PLACER CO; FORESTHILL, 1.5 MI. NNW (AIR), UPPER KEYSTONE TRANSECT. 2800' 23 MAR (16 APR) 1980. R.L. SEIB (6904).

<u>E.</u>

♂ 1.83g

SDB 763 ♂ ___: NEVADA CO.; NEVADA CITY, 3.9 MI. N. (AIR) ALONG ROUND MOUNTAIN TRANSECT. 24 MAR (16 APR) 1980. R.L. SEIB (6924).

<u>E.</u>

♂ 4.92g TESTES 0.1607g.

SDB 764 ♂ ___: INYO CO.; JAIL CANYON AT HALL MINE. CA. 5000', PANAMINT MOUNTAINS. 26 MAR (16 APR) 1980. R.W. MARLOW.

<u>E.</u>

♂ 5.70g TESTES 0.0115g.

SDB 765 CALIFORNIA: CONTRA COSTA CO.; MT. DIABLO, E. BASE, 0.6 MI. NW WHISPERING PINES RD. ON MORGAN TERRITORY RD. 13 APR (16 APR) 1980. H. W. GREENE.

♂ 11.08g TESTES: 0.1254g

Eumeces

SDB 766 – 773. ___: MENDOCINO CO.; LAYTONVILLE, 7.2 MI. N (HWY 101). 13 APR (16 APR) 1980. H. B. SHAFFER + R. D. SAGE.

Eumeces

| | | | |
|---|---|---|---|
| 766 | ♀ | 9.08g | TAIL VENTER PINK |
| 767 | ♀ | 5.82 | " (BROKEN) |
| 768 | ♀ | 7.82 | TAIL DORSUM BLUE |
| 769 | ♀ | 6.56 | " |
| 770 | ♂ | 5.55 | " TESTES 0.1305g (SAVED) |
| 771 | ♀ | 2.10 | " |
| 772 | ♀ | 2.03 | " |
| 773 | ♂ | 1.50 | " |

SDB 774 ___: ALAMEDA CO; DANVILLE, CA. 2.5 MI. W. AT BOLLINGER CANYON IN LAS TRAMPAS REGIONAL WILDERNESS. ERIC JENNINGS, 13(24) APR 1980.

Eumeces

♂ 7.45g. TESTES: 0.0613 (SAVED)

SDB 775 ♀ CALIFORNIA: SAN DIEGO CO; WILL VALLEY, SE PALOMAR JCT., AT EXTREME NW EDGE OF VALLEY WHERE CREEKS COME TOGETHER. 3700' 19 MAR (24 APR) 1980. K. YANEV, D. WAKE, J. HANKEN, C. BROWN.

<u>EUMECES</u> <u>SKILTONIANUS</u>

♀ 4.20 g

SDB 776-777 ♀♂ ____: MARIPOSA CO.; BEAR VALLEY, 6.0 mi. SW (AIR) AT NUMBER 9 MINE - GRASSLAND TRANSECT, 1100'. T. J. PAPENFUSS (17096-7) & J. CADLE. 4 (24) APR 1980.

<u>E.</u>

776 ♀ 16.74 g ♀

777. ♂ 26.27 g TESTES: 0.3293 (SAVED)

SDB 778 ♂ ____: PLACER CO.; AUBURN, 2.5 mi. NE (AIR) AT FORESTHILL BRIDGE (BURNED CHAPARRAL TRANSECT), 1400'. T.J. PAPENFUSS (17157) & J. CADLE. 11 (24) APR 1980.

<u>E.</u>

♂ 8.74 g TESTES: 0.0940 (SAVED)

SDB 779 ♀ CALIFORNIA: NEVADA Co.; NEVADA CITY, 5.0 mi. N. (AIR) ON BALD MOUNTAIN (DOUGLAS FIR TRANSECT), 3000'. 12(24) APR 1980 T.J. PAPENFUSS (17167) & J. CADLE.

Eumeces

♀ 6.66 g.

SDB 780-781 ♂♂ ___: MARIPOSA Co.; COULTERVILLE, 7.5 mi. ESE (AIR), 2900', TIMBRUSH-CHAPARRAL TRANSECT. 19 APR (2 MAY) 1980. T.J. PAPENFUSS (17170-17171) & R. MACEY.

Eumeces

780 ♂ 12.4 g TESTES 0.0900 (SAVED)
781 ♂ 2.97 g

SDB 782-783 ♀ ♂ ___: ___; BEAR VALLEY, 5.5 mi. NE (AIR), NORTH FORK MERCED RIVER, RIPARIAN TRANSECT. T. J. PAPENFUSS (17187-8) & R. MACEY. 20 APR (2 MAY) 1980.

E.

782 ♀ 8.10 g
783 ♂ 7.50 g TESTES: 0.0308 (SAVED)

SDB 784 ♀ CALIFORNIA: EL DORADO CO; SOMERSET, 1.0 mi. S, 4.5 mi. E. AT 2900'. 4 MAY (20 MAY) 1980. J. HAFNER. (NOT WEIGHED)

E.

SDB 785 PENNSYLVANIA: POTTER CO; PORTAGE TOWNSHIP, AUSTIN, W. OF, APPROX. 0.5 mi. FROM RT. 155 ON COLLEY ROAD. 5 MAY (20 MAY) 1980. T. H. CERVONE.

E. ANTHRACINUS

SDB 786 CALIFORNIA: AMADOR CO; FIDDLETOWN, 3.0 mi. SE (AIR) AT 2200'. RANCHERIA CREEK - OAK WOODLAND TRANSECT. 17 MAY (10 JUN) 1980. T. J. PAPENFUSS (17210) + R. MACEY.

E.

20.30g ♂ TESTES: 0.0564 g (SAVED)

SDB 787 —: CALAVERAS CO.; SAN ANDREAS, 7.5 mi. ESE (AIR) AT 1500'. FRICOT SCHOOL, OAK WOODLAND TRANSECT. 17 MAY (10 JUN) 1980. T. J. PAPENFUSS (17209) + R. MACEY.

E.

2.90 g ♀

SDB 788 CALIFORNIA: MARIPOSA Co.; COULTERVILLE, 5.5 mi. NNE (AIR) AT 3900'. WAGNER RIDGE - PINE TRANSECT. 18 MAY (10 JUN) 1980. T.J. PAPENFUSS (17219) & R. MACEY.

EUMECES

6.72g ♂ TESTES: 0.0479g saved

SDB 789-790 ___: PLACER Co.; AUBURN, 2.5 mi. NE (AIR) AT 1400'. FORESTHILL BRIDGE - BURNED CHAPARRAL TRANSECT. 18 MAY (10 JUN) 1980. T.J. PAPENFUSS (17213 & 17212) & R. MACEY.

E.

789 ♂ 2.74g

790 ♂ 21.36g TESTES: 0.0280 saved

SDB 791 ___: CALAVERAS Co.; WEST POINT, 3.2 mi. W. (AIR), 2600'. DUNLOP PINE TRANSECT. 25 JUN (9 JUL) 1980. T.J. PAPENFUSS (17227) & R MACEY.

E.

3.85g, ♂

SDB 792–794 CALIFORNIA: CALAVERAS Co.; WEST POINT, 4.2 mi. WSW (AIR), 2600'. DUNLOP-OAK TRANSECT. 26 JUN (9 JUL) 1980. T. J. PAPENFUSS (17229–17231) AND R. MACEY.

E.

| | | | | |
|---|---|---|---|---|
| 792 | ♀ | 9.09 g | | |
| 793 | ♂ | 12.4 g | TESTES | 0.0161 g |
| 794 | ♂ | 3.3 g | | saved |

SDB 795 ——: NEVADA Co.; NEVADA CITY, 7.3 mi. NNE (AIR) AT SOUTH YUBA RECREATION AREA. PONDEROSA PINE TRANSECT, 3000'. 28 JUN (9 JUL) 1980. T. J. PAPENFUSS (17249) + R. MACEY.

E.

6.80 g, ♂, TESTES 0.0111 g. (saved)

SDB 796 —: —; —, 5.0 mi. N. (AIR), BALD MTN. DOUGLAS FIR TRANSECT, 3000'. 28 JUN (9 JUL) 1980. T. J. PAPENFUSS (17250) + R. MACEY.

E.

2.09 g, ♂.

SDB 797 CALIFORNIA: PLACER Co.; FORESTHILL, 1.5 mi. NNW (AIR), upper KEYSTONE MIXED CONIFER TRANSECT, 2900'. 28 JUN (9 JUL) 1980. T. J. PAPENFUSS (17236) AND R MACEY.

*E.*

7.44 g, ♂, TESTES 0.0040 g (SAVED)

SDB 798 PENNSYLVANIA: CAMERON Co.; GIBSON TOWNSHIP, SINNAMAHONING, S. OF, AT 1.7 mi. S. RT. 120 ON WYKOFF RUN RD. 19 JUN (11 JUL) 1980. T. H. CERVONE

*EUMECES ANTHRACINUS*

2.07 g, ♀

SDB 799 ____: POTTER Co.; PORTAGE TOWNSHIP, AUSTIN, W. OF, AT CA 0.5 mi. NE RT. 155 ON COLLEY RD. 26 JUN (11 JUL) 1980. T. H. CERVONE. 1500' ELEV, $T_A = 30.8°C$.

*E. ANTHRACINUS*

2.57 g, ♂

SDB 800 GEORGIA: HARRIS Co.; HAMILTON, CA. 3 mi. E. ON BLACK MOUNTAIN. 28 APR (11 JUL) 1980. R. D. SAGE.

*E. FASCIATUS*

6.86 g, ♂

SDB 801 CALIFORNIA: MARIPOSA Co.; BEAR VALLEY, 6.5 mi. NE (AIR) AT N. FORK OF MERCED RIVER. RIPARIAN TRANSECT, 1200'. 9 JUL (11 JUL) 1980. R.L. SEIB (7023).

EUMECES

4.85 g, ♂, TESTES 0.0031 g (SAVED)

SDB 802 - 804 PENNSYLVANIA: POTTER Co.; PORTAGE TOWNSHIP, AUSTIN, W. OF. Approx. 0.5 mi. NE RT. 155 ON COLLEY RD. R.C. BOTHNER. 9(16) JUL 1980.

In field meadow under flat fine sandstone rock, SE facing slope. 2030-2100'.

E. ANTHRACINUS

802 ♀ 3.60 g
803 ♀ 3.68 g
804 ♂ 4.85 g TESTES = 0.0124

SDB 805 CALIFORNIA: MONO Co.; BRIDGEPORT, 20 mi. ENE (AIR) IN CLARK CANYON. SEC 26, T5N, R 25E, BODIE HILLS, 6800'. 19 AUG (28 AUG) 1980. R.L. SEIB (7302)

♂ E. 5.32 g, TESTES: (saved) 0.0172 g.

SDB 806 WASHINGTON: GRANT Co.; VANTAGE, ≈ 2.0 Mi. (AIR) NNE. 23 AUG (28 AUG) 1980. H.W. GREENE (998).

♀ 0.85 g.

Eumeces

SDB 807-809 CALIFORNIA: MENDOCINO Co.; NAVARRO, ≈ 8.5 mi. S. ON HWY 128 (RD) AT PHILO METHODIST CHURCH. 4 DEC (21 JAN) 1980 (1981). S.K. SESSIONS & M. STAYTON.

807 ♀ 1.52 g

808 ♂ 1.66 g

809 ♂ 1.70 g

Eumeces

SDB 810 —: —; YORKVILLE, 4.8 mi. NW (RD) ON RT. 128. 24 JAN (18 FEB) 1981. S.K. SESSIONS, D. GOOD, J. KEZER, A. LARSON.

♂ 3.4 g TESTES: 0.0449 g (SAVED)

Eumeces

SDB 811-812 —: —; YORKVILLE, 0.6 mi. SE (RD) ON RT. 128. 24 JAN (18 FEB) 1981. S.K. SESSIONS, D. GOOD, J. KEZER, A. LARSON.

811 ♀ 4.20 g

812 ♂ 5.30 g TESTES: 0.0760 g (SAVED)

SDB 813 CALIFORNIA: RIVERSIDE Co.; RANCHO
CALIFORNIA, 40250 PASEO SEVENO.
21 SEP 1980 (18 FEB 1981). M. RUGGLES
♂ 9.20g TESTES: 0.1005g (SAVED)
EUMECES

SDB 814 CA: LAKE Co.; SQUAW VALLEY CREEK,
620 m, 6 mi S, 0.5 mi E HULL MTN.
T 18N, R 10 W, SEC 1, SE 1/4.
D.A. GOOD. 12 (30) MAR 1981
♂ 1.36g
EUMECES

SDB 815 —: CALAVERAS Co.; VALLECITOS,
2.7 mi. SE (Rd) AT WADES FLAT
GULCH, 1550'. T 3N, R 14E, SEC 32
(NW). 22 FEB (30 MAR) 1981. D.B.
WAKE + J. CADLE.
♀ 18.17g EUMECES

SDB 816 —: MONTEREY Co.; GAMBOA POINT
R. OSTFELD. (= 4.5 km NNW LUCIA) 26(30) MAR 81
♀ 7.16g E.

SDB 817-818 CALIFORNIA: CONTRA COSTA Co.; SIESTA VALLEY (BERKELEY HILLS). 23 (30) MARCH 1981. H. B. SHAFFER.

817 ♂ 8.08g TESTES = 0.1149 Saved
818 ♂ 4.99g TESTES = 0.0967g. "

EUMECES

SDB 819-820 ___: ___; BRIONES REGIONAL PARK. 23 (30) MAR 1981. H.B. SHAFFER

819 ♂ 6.93g TESTES = 0.1460 SAVED
820 ♂ 1.26g

E.

SDB 821 ___: MONTEREY Co; GAMBOA POINT, 4.5 km NNW LUCIA. R. OSTFELD. 26 (30) MAR 1981

♀ 7.99g EUMECES

SDB 822 ___: CALAVERAS CO; WEST POINT, 3.2 mi. (AIR), W. 2600' DUNLOP PINE TRANSECT. 4 APR (16 APR) 1981. T. J. PAPENFUSS,

♂ 4.0g EUMECES ______ TESTES: 0.0041g.

SDB 823-826 ___: NAPA CO.; LAKE BERRYESSA, W. SIDE (9 mi. [20] N. Hwy 128 AT SMITTLE [?] CREEK). 4 APR (16 APR) 1981. D.B. WAKE

E. ______

823 ♂ 0.0677 TESTES, 5.57g.; 824 ♂ 1.73g
825 ♂ 1.67g; 826 ♂ 1.82g

SDB 827 CALIFORNIA: NAPA Co.; YOUNTVILLE, 9.75 km ENE AT ATLAS PEAK, NE SIDE (= 9 mi. [RD] ON ATLAS PEAK RD FROM HWY 121). 1850', 4 (16) APR 1981. D. B. WAKE.
♂ Eumeces 1.72 g.

SDB 828 ___: ___; NAPA, 11 km NNE (AIR) ON HWY 121, 5 mi. (RD) S. HWY 128 (CA 0.5 mi. N. INTERSECTION WITH WOODEN VALLEY RD). 4 (16) APR 1981. D. B. WAKE
♀ E. 1.40 g.

SDB 829-830 ___: CALAVERAS CO.; AVERY, CA. 1 mi. (AIR) W. T4N, R14E, S 13 (NW). 3900' AT TOP, POSSIBLY AS LOW AS 37-3750'. 13 (16) APR 1981. D. B. WAKE.
E.
829 ♂ 12.6 g TESTES 0.1526 g
830 ♂ 5.67 g TESTES 0.0725 g

SDB 831 ___: INYO CO.; INDEPENDENCE, 5 mi. W. AND 1.25 mi. S. (AIR; = ≈ 5 mi. W. ON ONION VALLEY RD.) AT GRAY'S MEADOW. 6000'. ≈ 22 APR 1981 (4 MAY 1981) BUT CAUGHT IN CAN TRAP BURIED BETWEEN 21 MAR 1981 AND 22 APR. S. D. BUSACK + D. A. GOOD. [STA. 3]
E.
♂ 1.04 g. (TAIL BRIGHT BLUE)

SDB 832-834 CALIFORNIA: INYO CO.; BIG PINE, ≈ 9.8 mi. NE AT TOLL HOUSE PICNIC GROUND (8.8 mi. E. JCT HWY 168 & HWY 395 [ROAD] ON 168). 5800', 21 MAY 1981 (KILLED 26 MAY 1981). S.D. BUSACK, IN CAN TRAPS SET 21 MAR 1981 AND LAST CHECKED 21 APR 1981. ALL SPECIMENS PHOTOGRAPHED, PHOTOS FILED 3 JUN 1981. [STATION 1]

832 ♂ 6.60 (WITHOUT TAIL) TESTES: 0.0500 g s

833 ♀ 10.76

834 ♂ 11.92 TESTES: 0.0919 g. s

SDB 835 ____: ____; OLANCHA, CA. 5 mi. WSW (RD) ON WALKER CREEK ROAD. 1540 m. 21 (26) MAY 1981. S.D. BUSACK, IN CAN TRAPS SET 21 MAR 1981, LAST CHECKED 21 APR. PHOTOS. [STATION 4)

835 ♂ 7.19 g TESTES: 7.19 g s

SDB 836-839 ___: ___; GRAPEVINE CANYON, NELSON MTS., 28.5 mi. (AIR) ESE LONE PINE (= STA. 16 OF BANTA, B.H. [1962]. WASMANN J. BIOL. p. 174; ILLUS. IN BANTA, B.H. 1963. OCC. PAP. CAL. ACAD. SCI. [36]: 6, FIG. 5). 1480 m. 21 MAY 1981 (KILLED 26 MAY). PHOTOS, [STA. 5]. S.D. BUSACK

836 ♂ 14.23 g TESTES 0.1360 g s; 838 ♂ 12.18 g s TESTES 0.0640 g; 837 ♀ 12.15 g; 839 ♀ 7.25 g

SDB 840 CALIFORNIA: INYO CO.; SURPRISE CANYON, JUST NE CHRIS WICK'S CAMP AT 1000 M. ELEV. (= 43.5 km NNE [AIR] TRONA [SAN BERNARDINO CO.] IN THE PANAMINT MTS.) 22 (26) MAY 1981. IN CAN TRAPS SET 23 MAR AND LAST CHECKED 22 APR 1981. S.D. Busack

♂ 19.97g TESTES 0.1286g. s

SDB 841 —: TULARE CO.; PIERPOINT SPRINGS, 5 mi. SSE (by RD) ON CALIF. 190. CAN TRAPPED. 11 JUNE 1981. S.D. Busack PHOTO

E.

♀ 2.71g.

SDB 842 —: TULARE CO.; PORTERVILLE, 26 mi ESE (AIR) [1.4 mi. (RD) ON HWY 190 N. JCT 190 + CALIF. HOT SPRINGS - JOHNSONDALE RD.]

11 JUN 1980 S.D. Busack. PHOTO

E.

♂ 6.63g TESTES: 0.0088g.

SDB 843-844. —: INYO CO.; GRAPEVINE CYN, NELSON MTS., 28.5 mi. (AIR) ESE LONE PINE (= ≈ 1 mi. S. STA. 16 OF BANTA [1962]. WASMANN J. BIOL. p. 174). 14 JUN 1981, CAN TRAPPED. S.D. Busack.

E.

843 ♂ 11.88g, TESTES = 0.0052; 844 ♂ DIED IN TRANSIT.

SDB 845-846 CALIFORNIA: INYO CO.; INDEPENDENCE, 5 mi. W. AND 1.25 mi. S. (AIR; = ≈ 5 mi. W. ON ONION VALLEY ROAD) AT GRAY'S MEADOW. 6000'. 15 JUN 1981. S.D. BUSACK, CAN TRAPPED.

E.

845, ♂, 3.87g, TESTES: 0.0049.
846, ♂, 4.47g, TESTES: 0.0058

SDB 847 ___: ___; BIG PINE, ≈ 9.8 mi. NE AT TOLL HOUSE PICNIC GROUND (8.8 mi. E. JCT. HWY 168 AND 395 [RD] ON 168.) 5800'. 15 JUN 1981. S.D. BUSACK, CAN TRAPPED.

E.

847, ♂, 3.38g, TESTES: 0.0012g.

SDB 848 ___: KERN CO.; OAK CREEK RD, 3.7 mi. NW ON TEHACHAPI - WILLOW SPRINGS RD. 23 MAY 1981 (19 JUN). H.W. GREENE. (1084)

E.

♀ 14.72g.

SDB 849-851 ___: INYO CO; GRAPEVINE CYN, NELSON MTS., 28.5 mi. (AIR) ESE LONE PINE (=STA. 16 OF BANTA, B.H. [1962] WASMANN J. BIOL, p. 174; ILLUS. " ", [1963], OCC. PAP. CAL. ACAD.) 1480 m. 15 JUN 1981. S.D. Busack, CAN-TRAPPED.

E.

849, ♂, 5.26g, TESTES: 0.0027g / 850, ♂, 12.07g, T: 0.0136 / 851, ♀, 12.83g

SDB 852 CALIFORNIA: CALAVERAS CO.; AVERY, ≈ 1 MI. W. (AIR). NWSEC13, T4N, R14E) 3900' (AT TOP). D.B. WAKE 15 JUN 1981

EUMECES

852, ♂, 11.98, TESTES = 0.0147.

SDB 853-855 MARYLAND: CHARLES CO.; WHITE PLAINS, 0.5 MI. S. ON RT. 301. 7 JUN (16 JUL) 1981 JEREMY JACOBS + S. BLAIR HEDGES.

EUMECES FASCIATUS

| | | | |
|---|---|---|---|
| 853 | ♀ | 6.47g | GRAVID: EGGS PRESENT |
| 854 | ♀ | 5.54g | GRAVID: EGGS PRESENT |
| 855 | ♂ | 4.88g | TESTES: 0.0185g (SAVED) |

SDB 856-858 MÉXICO: HIDALGO; AGUA BLANCA, 3.2 KM NW (RD), 2150 M. 26 OCT 1981. D.B. WAKE (1312-1314).

EUMECES

| | | |
|---|---|---|
| 856 | ♀ | BLOOD TAKEN |
| 857 | ♀ | " |
| 858 | ♀ | " |
| ~~859~~ | ~~♂~~ | ~~"~~ |

SDB 859 MÉXICO: HIDALGO; DURANGO, 11.3 KM. S. ON MEX. HWY. 85 (1.7 KM S. SAN VICENTE) 27 OCT 1981. D.B. WAKE (DBW 1317).
♂ EUMECES (BLOOD TAKEN)

SDB 860 MÉXICO: HIDALGO; MINERAL DEL CHICO, 5.9 KM S (BY ROAD). 2800M. 30 OCT 1981 D. DARDA: COLL. (DBW 1335).
♂ EUMECES (BLOOD TAKEN LABELLED "A" WHICH MAY BE BLOOD FROM 870).

SDB 861-864 MÉXICO: OAXACA; ~~AYUTLA~~ AYUTLA, CANYON 1 KM. E. 1900-2100 M. 18 OCT 1981. D.B. WAKE, et. al. (DBW 1120-1123)
EUMECES
861 ♂, 862 ♂, 863 ♀, 864 ♂

SDB 865-866 MÉXICO: OAXACA; SOLA DE VEGA, 19 KM S. 2190 m. 16 OCT 1981. D.B. WAKE, et. al. (DBW 1110-1111)
EUMECES
865 - ♂ (Blood taken), 866 ♂

SDB 867-870 MÉXICO: VERACRUZ; LAS VICAS, 13-15 KM (RD) S. ON RD. TO MICROWAVE STATION. 3000 M. 24 OCT 1981. D.B. WAKE, et. al. (DBW 1273-1276)
EUMECES
867 ♂ (Blood), 868 ♂, 869 ♀ (Blood), *870 ♀ (Blood LABELLED "B")

*See 860

S. D. Busack
J. A. Visnaw

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SDB 871–876 SPAIN: CÁDIZ PROVINCE; PUERTO REAL, 3.1 km E. IN SMALL POND. 21 MAR 1982. S. D. Busack + J. A. Visnaw.

| | | | | |
|---|---|---|---|---|
| ♀ | 871 | NATRIX MAURA | 53 g, 450 + 96 mm | H, L. |
| ♂ | 872 | HYLA MERIDIONALIS | 6 g, 45 mm, | H, L, I, S. |
| ♂ | 873 | " | 6 g, 45 mm, | " |
| ♂ | 874 | " | 5.7 g, 44 mm, | " |
| ♂ | 875 | " | 7.3 g, 45 mm, | " |
| ♂ | 876 | " | 6.2 g, 47 mm, | " |

SDB 877 ___: ___; FACINAS, 10.3 km E. 24 MAR 1982
PSAMMODROMUS ALGIRUS ♀

SDB 878 ___: ___; ___, 13.1 km E. 24 MAR 1982
PODARCIS HISPANICA ♂

SDB 879 ___: ___; ___, 12.6 km E. 24 MAR 1982
P. HISPANICA ♂

SDB 880 ___: ___; ___, 12.0 km E. 24 MAR 1982
P. HISPANICA ♂

SDB 881–882 ___: ___; ___, 11.8 km E. 24 MAR 1982
P. HISPANICA ♂, ♀

SDB 883 ___: ___; ___, 10.3 km E. 24 MAR 1982
P. HISPANICA ♂

SDB 884–885 ___: ___; ___, 10.3 km E. 24 MAR 1982
TARENTOLA MAURITANICA ♂, ♂

SDB 886 ___: ___; ___, 11.8 km E 24 MAR 1982
T. MAURITANICA ♀

SDB 887 ___: ___; ___, 12.8 km E. 24 MAR 1982 (PHOTO)
NATRIX NATRIX ♀

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SDB 888-892. SPAIN: CÁDIZ PROVINCE; FACINAS, 13.9 km E. 24 MAR 1982.

888 = Bufo bufo ♀

889 = Natrix maura ♂

890-891 = Discoglossus pictus ♂, ♀

892 = Mauremys leprosa

SDB 893-902 ___: ___; ___, 12.9 - 23.3 km E. 25 MAR 1982

Bufo bufo

SDB 903 ___: ___; INTERSECTION OF C-440 WITH THE ROAD TO BENALUP DE SIDONIA, 2.1 km W. ON ROAD TO BENALUP. 25 MAR 1982.

Hyla meridionalis ♂

SDB 904 ___: ___; INTERSECTION OF C-440 WITH THE ROAD TO FACINAS, 4.9 km. NW ON C-440. 25 MAR 1982

Discoglossus pictus

SDB 905-906 ___: ___; FACINAS, 22 + 22.3 km E. 25 MAR 1982.

D. pictus

SDB 907 ___: ___; ___, 5.9 km E. 25 MAR 1982 (PHOTO)

Salamandra salamandra

SDB 908 ___: ___; ___, 2.7 km E. AT RÍO ALMODOVAR. 26 MAR 82

Mauremys leprosa

SDB 909 ___: ___; ___, 18.8 km E. 26 MAR 1982.

M. leprosa ♀

SDB 910 ___: ___; ___, 15.9 km E 26 MAR 1982

Natrix maura ♀

SDB 911-914 ___: ___; ___, 11.3 - 16.1 km E. 26 MAR 1982

Podarcis hispanica

SDB 915 ___: ___; ___, 13.2 km E. 26 MAR 1982.

Tarentola mauritanica

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SDB 916 Spain: Cádiz Prov.; Facinas, 3.9 km E. 26MAR
Hyla meridionalis ♂

SDB 917- ___: ___; ___, 3.9 km E. 26MAR.
919 Rana perezi ♂, ♀, ♀

SDB 920 ___: ___; ___, 23.5 km E. 27MAR.
Mauremys leprosa

SDB 921- ___: ___; ___, 23.5 km E. 27MAR
924 Natrix maura

SDB 925 ___: ___; 5.9 km SE on N-340 of intersection with road to Facinas. 27MAR.
Podarcis hispanica ♀ PHOTO

SDB 926 ___: ___; Facinas, 23.5 km E. 27MAR.
Chalcides chalcides ♀ PHOTO

SDB 927- ___: ___; ___, 8.0 km S. of N-340 and road
931 to Facinas on Rd. to San Bartolomé. 28MAR
927 = Psammodromus algirus
928 = Hemidactylus turcicus
929-930 = Natrix maura
931 = Lacerta lepida

SDB 932- ___: ___; ___, between 1 and 25 km E. 29MAR.
953 932 ~~953~~ - 935 = Rana perezi
936 - 941 = Discoglossus pictus
942 - 950 = Hyla meridionalis
951 - 953 = Salamandra salamandra

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SECOND SET OF NUMBERS, SDB 954-995.

SDB 954 SPAIN: CÁDIZ PROV.; FACINAS, 8.7 km E
2 APR 1982.
TARENTOLA MAURITANICA

SDB 955 —: —; —, 17.0 km E. 2 APR 1982
LACERTA LEPIDA

SDB 956 —: —; —, 22.8 km E. 2 APR 1982
LACERTA LEPIDA

SDB 957 —: —; —, 20.5 km E. 2 APR 1982
LACERTA LEPIDA

SDB 958 —: —; —, 19.7 km E. 2 APR 1982
LACERTA LEPIDA

SDB 959 —: —; —, 7.0 km E. 1 APR 1982
L. LEPIDA

SDB 960 —: —; ALGECIRAS, VIC. RINCONCILLO. 1 APR 1982
L. LEPIDA

SDB 961 —: —; FACINAS, 8.7 km E. 2 APR 1982
TARENTOLA MAURITANICA

SDB 962 —: —; —, 19.6 km E. 2 APR.
T. MAURITANICA

SDB 963-965 —: —; —, 8.7 - 9.7 km E. 1 APR.
T. MAURITANICA

SDB 966-967 —: —; RUINAS DE BOLONIA, 0.9 km E.
NATRIX MAURA

SDB 968 —: —; FACINAS, 23.5 km E.
COLUBER HIPPOCREPIS

SDB 969 —: —; —, ——.
NATRIX NATRIX

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DOUBLE SET OF NUMBERS, SDB 954-995

SDB 970 SPAIN: CÁDIZ PROV.; FACINAS, 3.5 km E. 2 APR.
MACROPROTODON CUCULLATUS

SDB 971 —: —; —, 4.5 km E. 2 APR.
MACROPROTODON CUCULLATUS

SDB 972 —: —; —, 19.8 km E. 3 APR
LACERTA LEPIDA

SDB 973 —: —; —, 21.6 km E. 3 APR.
L. LEPIDA

SDB 974 —: —; —, 4.5 km E. 3 APR.
L. LEPIDA

SDB 975-976 —: —; —, 19.7 km E. 2 APR.
BLANUS CINEREUS

SDB 977 —: —; —, 4.5 km E. 2 APR.
B. CINEREUS

SDB 978 —: —; —, 19.7 km E. 2 APR
PSAMMODROMUS ALGIRUS

SDB 979 —: —; —, 4.5 km E. 2 APR.
PSAMMODROMUS HISPANICUS

SDB 980 —: —; C-440 INTERSECTION WITH ROAD TO BENALUP DE SIDONIA, 20 km MARKER. 3 APR.
P. HISPANICUS

SDB 981 —: —; —, 0.2 km W. 3 APR
PODARCIS HISPANICA

SDB 982 —: —; —, 0.2 km W. 3 APR.
P. HISPANICA

SDB 983 —: —; —, 0.8 km W. 3 APR.
P. HISPANICA

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A. Salvador

1982

# Second set of numbers, SDB 954-995.

SDB 984 SPAIN: CÁDIZ PROV; C-440 INTERSECTION WITH ROAD TO BENALUP DE SIDONIA (ON ROAD TO BENALUP), 1.7 km W. 3 APR.

*Podarcis hispanica*

SDB 985 ___: ___; ___, 0.4 km W. 3 APR.

*Coluber hippocrepis*

SDB 986 ___: ___; ___, 1.7 km W. 3 APR.

*Natrix maura*

SDB 987 ___: ___; ___, 2.45 km W. 3 APR.

*Macroprotodon cucullatus*

SDB 988 ___: ___; ___, 0.4 km W. 3 APR.

*Bufo bufo*

SDB 989 ___: ___; ___, 0.8 km W. 3 APR

*Rana perezi*

SDB 990 ___: ___; ___, 0.8 km W. 3 APR.

*R. perezi*

SDB 991 ___: ___; ___, 0.8 km W. 3 APR.

*Hyla meridionalis*

DO NOT USE NUMBERS ~~TISSUES~~ DUPLICATED DO NOT USE

SDB 992 ___: ___; ___, 1.75 km W. 3 APR

*Chalcides chalcides*

[PH]OTO SDB 993 ___: ___; ___, 0.8 km W. 3 APR

*Elaphe scalaris* (PERMISO DE A. SALVADOR)

SDB 994 ___: ___; ___, 2.45 km W. 3 APR.

*Lacerta lepida*

SDB 995 ___: ___; ___, 2.45 km W. 3 APR.

*Lacerta lepida*

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SDB 954- SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 12.7 km
988 WNW TO ALCALÁ DE LOS GAZULES, 23.5 km SSE
ON C-440. 30 MAR 1982.

954 = *Discoglossus pictus*
955-962 = *Hyla meridionalis*
963-965 = *Pelobates cultripes*
966-970 = *Salamandra salamandra*
971 = *Rana perezi*
972-978 = *Bufo bufo*
979-988 = *Pleurodeles waltl*

SDB 989- ___: ___; FACINAS, 1.1 km – 21.3 km E. ON
993 ROAD TO C-440. 30 MAR 1982.

989-990 = *Rana perezi* (DUPLICATED, DO NOT USE)
991-993 = *Salamandra salamandra*

SDB 994- ___: ___; ___, 19.1 km – 5.8 km E. ON ROAD
995 TO C-440. 31 MAR 1982.

994 = *Rana perezi*
995 = *Salamandra salamandra*

SDB 996- ___: ___; ___, 5.0 – 8.9 km E. ON ROAD TO C-440,
~~1000~~ 998 4 APR 1982.

996-997 = *Rana perezi*
998 ~~-999~~ = *Discoglossus pictus*
~~1000~~

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S.A. Visnaw

1982

SDB 999-1002 SPAIN: CÁDIZ PROV.; INTERSECTION OF C-440 WITH ROAD TO BENALUP DE SIDONIA, ON ROAD TO BENALUP, 4.9 - 8.9 km NW OF INTERSECTION. 4APR.

999 = *Discoglossus pictus*

1000 = *Natrix maura* (D.O.R.)

1001-1002 = *Bufo bufo*

SDB 1003 —:—; ALCALÁ DE LOS GAZULES, 18.0 km S. ON C-440. 4 APR 1982.

*Rana perezi*

SDB 1004 —:—; ALGECIRAS, PLAYA RINCONCILLO. 4APR.

*Chalcides chalcides* (PURCHASE)

SDB 1005-1013. —:—; FACINAS, VIC. OF RESERVOIR. 5APR 1982 (WITH A. SALVADOR)

1005 = *Blanus cinereus*

1006-1013 = *Psammodromus hispanicus*

SDB 1014-~~1025~~ 1027 —:—; BENALUP DE SIDONIA, 0.1 - 9.1 km NE. ON CA-P-2112. 6 APR 1982.

1014-1020 = *Tarentola mauritanica*

1021 = *Hemidactylus turcicus*

1022-1023 = *Psammodromus algirus*

1024-1025 = *Rana perezi*

1026 = *Natrix maura*

1027 = *Malpolon monspessulanus*

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SDB 1028- SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, ≈1 km SE
1030 IN SMALL PONDS. 6 APR 1982. A. SALVADOR

MAUREMYS LEPROSA

SDB 1031- —: —; —, 2.2 – 11.4 km NE ON CA-P-2112.
1036. 7 APR.

1031 = MALPOLON MONSPESSULANUS (DOR, A. SALVADOR)
1032 = SALAMANDRA SALAMANDRA
1033-1034 = TARENTOLA MAURITANICA
1035-1036 = PODARCIS HISPANICA

SDB 1037 —: —; ALCALÁ DE LOS GAZULES, km 69 (S) ON
C-440. 7 APR. A. SALVADOR.

PODARCIS HISPANICA

SDB 1038- —: —; BENALUP DE SIDONIA, 2.2 – 14.0 km NE
1046 ON CA-P-2112. 7 APR 1982.

1038 = BLANUS CINEREUS
1039 = MAUREMYS LEPROSA
1040 = NATRIX MAURA (A. SALVADOR, S. BENALUP)
1041 – 1046 = LACERTA LEPIDA

SDB 1047- —: —; FACINAS, km 13 ON ROAD E. TO C-440.
1048 8 APR 1982, A. SALVADOR.

SALAMANDRA SALAMANDRA

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JA. Visnaw

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SDB 1049 SPAIN: Cádiz Prov.; Facinas, km 22 on Road to C-440. 8 APR, A. Salvador.
Macroprotodon cucullatus

SDB 1050-1052 ___: ___; ___, km 13 on Rd to C-440. 8 APR. A. Salvador.
1050 = Macroprotodon cucullatus
1051 = Blanus cinereus
1052 = Psammodromus algirus

SDB 1053-1062 ___: ___; Benalup de Sidonia, 4.7 - 7.1 km NE on CA-P-2112. 8 APR.
1053 = Psammodromus algirus
1054-1056 = Blanus cinereus
1057-1058 = Psammodromus algirus
1059 = Tarentola mauritanica
1060 = Podarcis hispanica
1061-1062 = Lacerta lepida

SDB 1063 ___: ___; Facinas, km 13 on Rd. E. to C-440. 8 APR, A. Salvador.
Coronella girondica (PHOTO)

SDB 1064-~~1075~~. 1073. ___: ___; Benalup de Sidonia, 7.1 km NE on CA-P-2112. 9 APR, with A. Salvador.
1064 = P. hispanica; 1065 = P. algirus; 1066-1068 = Blanus cinereus; 1069-1070 = M. cucullatus; 1071 = Natrix natrix; 1072 = Chalcides chalcides; 1073 = R. perezi

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SDB 1074- SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 7.1 &
1075- 8.2 km NE ON CA-P-2112. 9 APR 1982
1076
1074 = Mauremys leprosa (8.2 km)
1075 - 1076 = Triturus marmoratus (7.1)

SDB 1077- ___: ___; ___, 0.8 km W. 3 APR (LOST IN CAR
1078 FOR 7 DAYS!)
Natrix maura

SDB 1079- ___: ___; FACINAS, 11.9 km ~~mark~~ E. ON ROAD
1086 E. (CA-221) TO C-440 11 APR.
1079 - 1085 = Blanus cinereus
1086 = Macroprotodon cucullatus

SDB 1087- ___: ___; BENALUP DE SIDONIA, 5.4 - 12 km NE
1091 + 0.8 km S. (= 1091). 11 APR
1087 - 1088 = Pelobates cultripes
1089 = Rana perezi
1090 = Discoglossus pictus
1091 = Pelobates cultripes

SDB 1092 ___: ___; LOS BARRIOS, 8.6 km N+E ON CA-512.
12 APR.
Salamandra salamandra

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# Morocco

SDB 1093 Morocco: Between Tanger & Tetouan; S. of km 29 on S-601 at intersection of S-601 to Ksar-es-Seghir with road to Souk-Tleta-Taghramet. 14 APR 1982.
(MVZ 178064) Mauremys leprosa

SDB 1094 ___: Tétouan Prov.; 17 km W. of Tétouan on P38 at km 12. 14 APR 1982.
Tarentola mauritanica (MVZ 178189)

SDB 1095-1106. Morocco: Chechaouèn (= Chaouèn), 0.5-15.1 km. SE on P39. 14 APR 1982
(MVZ 177912-4) 1095-1097 = Bufo mauritanicus
(MVZ 177919) 1098 = Alytes obstetricans
(MVZ 177924) 1099 = Discoglossus pictus
(MVZ 177984-990) 1100-1106 = Hyla meridionalis

SDB 1107-1118 Morocco: Chechaouèn (= Chaouèn), 17.3-23 km SE on P39 15 APR 1982
(MVZ 177904) 1107 = Salamandra salamandra
(MVZ 177920) 1108 = Alytes obstetricans
(MVZ 177925-7) 1109-1111 = Discoglossus pictus
(MVZ 177991-3) 1112-1114 = Hyla meridionalis
(MVZ 178025) 1115 = Rana perezi
(MVZ 177915-7) 1116-1118 = Bufo mauritanicus

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SDB 1119 Morocco: Chechaouèn (= Chaouèn), 15 km SE on P39 16 APR 1982.
(MVZ 178379) Psammodromus algirus

SDB 1120-1127 Morocco: Chechaouèn (= Chaouèn), 5.8 km SE and Bab Taza, 14.6 km SW on P39. 16 APR 1982.
(MVZ 178026-31) 1120-1125 = Rana perezi
(MVZ 177994-5) 1126-1127 = Hyla meridionalis

SDB 1128-1139 Morocco: Kenitra, 12.2 km E. of Hippodrome in Kenitra. 18 APR 1982.
(MVZ 177929-40) Hyla meridionalis

SDB 1140-1154 Morocco: Mehdiya-Plage, on and around walls of ruins by the beach. 19 APR 1982
(MVZ 178147-51) 1140-1144 = Tarentola mauritanica
(MVZ 178074-5) 1145-1146 = Macroprotodon cucullatus
(MVZ 178095-178101) 1147-1153 = Blanus cinereus
(MVZ 178393) 1154 = Chalcides ocellatus

SDB 1155-1157 Morocco: Rabat, 10 km E. of Rabat-Sale Bridge. 19 APR 1982
(MVZ 177961-2) 1155-1156 = Hyla meridionalis
(MVZ 177923) 1157 = Discoglossus pictus

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SDB 1158- MOROCCO: KENITRA, 1 km. NW ON RD. TO
1159 MEHDIYA-PLAGE. 20 APR 1982.
(MVZ 178193-178194) ACANTHODACTYLUS ERYTHRURUS

SDB 1160- MOROCCO: MEHDIYA-PLAGE, ON AND AROUND
1164 WALLS OF RUINS BY THE BEACH. 20 APR 1982.
(MVZ 178394) 1160 = CHALCIDES OCELLATUS
(MVZ 178102) 1161 = BLANUS CINEREUS
(MVZ 178152-178154) 1162-1164 = TARENTOLA MAURITANICA

SDB 1165- MOROCCO: KENITRA, 27 km S. ON P29A.
1167 29 APR 1982.
(MVZ 178089) 1165 = NATRIX MAURA
(MVZ 178112) 1166 = TROGONOPHIS WIEGMANNI
(MVZ 178396) 1167 = CHALCIDES MIONECTON

SDB 1168 MOROCCO: KENITRA, 10.1 km S. ON P29A.
1 MAY 1982.
(MVZ 178119) OPHISAURUS KOELLICKERI (SP?)

SDB 1169- MOROCCO: ROMAN RUINS AT BANASA.
1173 2 MAY 1982.
(MVZ 178190-178192) 1169-1171 = TARENTOLA MAURITANICA
(MVZ 178362) 1172 = PSAMMODROMUS ALGIRUS
(MVZ 178090) 1173 = NATRIX MAURA

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SDB 1174-1187. Morocco: Asilah, ≈18 km S. on main Rd. to Rabat. 3 May 1982.

(MVZ 178010-15) 1174 - 1179 = *Rana perezi*
(MVZ 178045-49) 1180 - 1184 = *Mauremys leprosa*
(MVZ 177978-177980) 1185 - 1187 = *Hyla meridionalis*

SDB 1188-1191 Morocco: Asilah, at International Campground. 3 May 1982

(MVZ 178162-178165) 1188 - 1191 = *Tarentola mauritanica*

SDB 1192-1193 Morocco: Asilah, ≈ 14 km S. on coast Rd. 5 May 1982.

(MVZ 178377-178378) *Psammodromus algirus*

SDB 1194-1198 Morocco; Asilah, ≈ 14 km S. on coast Rd. 4 May 1982.

(MVZ 178016-18) 1194 - 1196 = *Rana perezi*
(MVZ 177981-2) 1197 - 1198 = *Hyla meridionalis*

SDB 1199-1213 Morocco: Asilah, ≈ 14 km S. on coast Road. 5 May 1982.

(MVZ 177903) 1199 = *Pleurodeles waltl*
(MVZ 178169-70) 1200 - 1201 = *Tarentola mauritanica*
(MVZ 178113-5) 1202 - 1204 = *Trogonophis wiegmanni*
(MVZ 178103-178111) 1205 - 1213 = *Blanus cinereus*

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SDB 1214- Morocco: Asilah, 15.7 km S. on P2.
1218 5 May 1982
(MVZ 178050-54) 1214-1218 = Mauremys leprosa

SDB 1219- Morocco: Asilah, International campground.
1220 6 May 1982.
(MVZ 178324) 1219 = ~~1220~~ Podarcis hispanica
(MVZ 178168) 1220 = Tarentola mauritanica

SDB 1221 Morocco: Intersection of P38 with P37, 15.4 km. SW on P37 (Eucalyptus forest between Dar-Chaoui and El Manzla).
7 May 1982.
(MVZ 178077) Macroprotodon cucullatus

SDB 1222 Morocco: Asilah, International Campground.
8 May 1982
(MVZ 178325) Podarcis hispanica

SDB 1223- Morocco: Asilah, S. wall of Medina.
1230 8 May 1982
(MVZ 178326-178333) Podarcis hispanica

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SDB 1231 Morocco: vicinity Grottes d'Hercules, 9 May 1982.
(MVZ 178366) Psammodromus algirus

SDB 1232-1235 Morocco: Tanger Prov.; ≈ 7 km NW Tanger. 9 May 1982
(MVZ 178069) 1232 = Coluber hippocrepis
(MVZ 178076) 1233 = Macroprotodon cucullatus
(MVZ 178367-178368) 1234-1235 = Psammodromus algirus

SDB 1236-1248 Morocco: Tanger Prov.; Temporary ponds just E. of Tanger (near Tingis campground). 9 May 1982.
(MVZ 177997-9) 1236 - 1238 = Rana perezi
(MVZ 177902) 1239 - 1248 (+ 18 untagged) = Pleurodeles waltl

SDB 1249 Morocco: Tanger Prov.; Tanger, Tingis campground. 9 May 1982
(MVZ 177963) Hyla meridionalis

SDB 1250-1258 Morocco: Tanger Prov.; Temporary ponds just E. of Tanger (near Tingis campground). 10 May 1982.
1250 = Pleurodeles waltl (MVZ 177901)
(MVZ 178397) 1251 = Discoglossus pictus
(MVZ 178000-4) 1252 - 1258 = Rana perezi

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SDB 1259- Morocco: Tanger Prov.; ≈ 7 km (air) W.
1262 Tanger. 11 May 1982.
(MVZ 178157-58) 1259 - 1260 = Tarentola mauritanica
(MVZ 178070) 1261 = Coluber hippocrepis
(MVZ 178118) 1262 = Agama bibroni
(1260-1262 near Grottes d'Hercule)

SDB 1263- Morocco: Ksar-es-Seghir 12 May 1982.
1264 (MVZ 178389) 1263 = Psammodromus algirus
(MVZ 178177) 1264 = Tarentola mauritanica

SDB 1265- Morocco: Ksar-es-Seghir, 9 km. S.
1267 12 May 1982
(MVZ 178178-9) 1265 - 1266 = Tarentola mauritanica
(MVZ 178344) 1267 = Podarcis hispanica

SDB 1268 Morocco: Ksar-es-Seghir, 9.2 km. S.
12 May 1982
(MVZ 178345) 1268 = Podarcis hispanica

SDB 1269 Morocco: Ksar-es-Seghir, 10.6 km S.
12 May 1982.
Mauremys leprosa
(MVZ 178067)

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SDB 1270-1271 Morocco: 0.9 km N. (on road to Souk-Tleta-Taghramet) intersection of road from Ksar-es-Seghir to Tétouan. 12 May 1982.

(MVZ 178180-81) Tarentola mauritanica

SDB 1272-1273. Morocco: 1.9 km N. (on road to Souk-Tleta-Taghramet) intersection of road from Ksar-es-Seghir to Tetouan. 12 May 1982.
(MVZ 178182) 1272 = Tarentola mauritanica
(MVZ 178343) 1273 = Podarcis hispanica

SDB 1274-1275 Morocco: Chechaouèn, municipal campground. 24 May.
(MVZ 178339) 1274 = P. hispanica
(MVZ 178171) 1275 = Tarentola mauritanica

SDB 1276-1283 ~~1284~~ Morocco: Chechaouèn, vicinity of municipal campground. 25 May.
(MVZ 178380-178386) 1276-1282 = Psammodromus algirus
(MVZ 178172) 1283 = T. mauritanica

SDB 1284 Morocco: Chechaouèn, E. edge of town in vicinity of river. 25 May.

Discoglossus pictus
(5 juveniles, no preserved bodies)

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SDB 1285–1292 Morocco: Chechaouèn, between E. edge of town and ≈ 7 km E. along road to Bab Taza. 26 May.

(MVZ 178173-4) 1285-1286 = Tarentola mauritanica
(MVZ 178387-88) 1287-1288 = Psammodromus algirus
(MVZ 178061) 1289 = Mauremys leprosa
(MVZ 178116) 1290 = Agama bibroni
(MVZ 178340-41) 1291-1292 = Podarcis hispanica

SDB 1293–1311 Morocco: Chechaouèn, ≈ 11 km. E. along road to Bab Taza. 27 May.

(MVZ 178200–178203) 1293-1296 = Acanthodactylus erythrurus
(MVZ 178342) 1297 = Podarcis hispanica
(MVZ 178117) 1298 = A. bibroni
(MVZ 178032-34) 1299-1301 = Rana perezi
(MVZ 178081-178088) 1302-1309 = Natrix maura
(MVZ 178062-3) 1310-1311 = Mauremys leprosa

SDB 1312–1313 Morocco: Chechaouèn, Municipal Campgd. 27 May.

(MVZ 178175-6) Tarentola mauritanica

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SDB 1314 Morocco: Âïn Leuh, ≈ 6 km. S. on S-303. D.O.R.
29 May 1982
(MVZ 178284) Lacerta lepida

SDB 1315– Morocco: Âïn-Leuh, ≈ 8 km. S. on S-303. 1680m.
1320 (near km. marker 18). 29 May 1982.
(MVZ 178285-6) 1315–1316 = L. lepida
(MVZ 178319-320) 1317-1318 = Podarcis hispanica
(MVZ 178156) 1319 = Tarentola mauritanica
(MVZ 178120) 1320 = Ophisaurus koellickeri

SDB 1321– Morocco: Âïn-Leuh, ≈ 11.3 km. S. on S-303.
1323 1700m. (near km. marker 21), forest of
Cedar & Oak. 29 May 1982
(MVZ 177918) 1321 = Bufo viridis
(MVZ 178287) 1322 = L. lepida
(MVZ 178321) 1323 = P. hispanica

SDB 1324 Morocco: Âïn-Leuh, ≈ 41.7 km. S. on S-303, 1430m.
29 May 1982.
(MVZ 178288) Lacerta lepida

SDB 1325- Morocco: Âïn-Leuh, ≈ 44.7 km S. on S-303, 1500m
1327 29 May 1982
(MVZ 178365) 1325 = Psammodromus algirus
(MVZ 178322) 1326 = Podarcis hispanica
(MVZ 178289) 1327 = L. lepida

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SDB 1328 Morocco: Aïn-Leuh, 61 km. S. on S-303, 1500 m.
29 May 1982
(MVZ 178323) 1328 = Podarcis hispanica

SDB 1329 - Morocco: El Ksiba, 1.9 km. S. 30 May.
(MVZ 178146) Saurodactylus mauritanicus

SDB 1330 - 1332 Morocco: El Ksiba, 3.5 km S. 1320 m.
30 May.
(MVZ 178351-178353) Podarcis perspicillata

SDB 1333 - 1334 Morocco: El Ksiba, 4.2 km. S. 1380 m.
30 May
(MVZ 178354-55) Podarcis perspicillata

SDB 1335 - 1336 Morocco: El Ksiba, 6.9 km. S. 1540 m.
30 May
(MVZ 178356-57) P. perspicillata

SDB 1337 - 1338 Morocco: El Ksiba, 7.1 km. S. 1520 m.
30 May.
(MVZ 178279) 1337 = Lacerta lepida
(MVZ 178291) 1338 = Podarcis hispanica

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SDB 1339–1340 MOROCCO: OUKAÏMEDÈN, 8 km. N. 2270M.
31 MAY 1982.

(MVZ 178073) 1339 = ~~MACROPROTODON CUCULLATUS~~ CORONELLA GIRONDICA
(MVZ 178121) 1340 = QUEDENFELDTIA TRACHYBLEPHARUS

SDB 1341–1361 MOROCCO: OUKAÏMEDEN. 2650M. 31 ~~JUNE~~ MAY.

(MVZ 177941-3) 1341–1343 = HYLA MERIDIONALIS
(MVZ 178296) 1344 = PODARCIS HISPANICA
(MVZ 178204–178220) 1345–1361 = ZOOTOCA ANDREANSKYI

SDB 1362–1396 MOROCCO: OUKAÏMEDEN. 2650M. 1 JUNE.

(MVZ 178297) 1362 = P. hispanica
(MVZ 178221–178254) 1363–1396 = Z. ANDREANSKYI

SDB 1397–1437 MOROCCO: OUKAÏMEDEN. 2650M. 2 JUN.

(MVZ 178255–178271) 1397–1413 = Z. ANDREANSKYI
(MVZ 177944–960) 1414–14~~22~~30 = HYLA MERIDIONALIS
(MVZ 177921) 1431–1432 = DISCOGLOSSUS PICTUS
(1432 = 5 FROGLETS FROZEN WHOLE)
(MVZ 178292–295) 1433–1436 = P. hispanica
(" 177905) 1437 = BUFO bufo

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SDB 1438-1444 Morocco: Oukaïmeden. 2650 m. 3 June

(MVZ 178272-78) Zootoca andreanskyi

SDB 1445-1453 Morocco: Oukaïmeden, ≈ 1 km N. 3 June.

(MVZ 178280-83) 1445-1448 = Lacerta lepida
(MVZ 178122-25) 1449-1452 = Quedenfeldtia trachyblephar
(MVZ 178298) 1453 = Podarcis hispanica

SDB 1454-1470 Morocco: Oukaïmeden, ≈ 5.8 km N. 2440 m.
3 June
(MVZ 178363-64) 1454-1455 = Psammodromus algirus
(MVZ 178299-178311) 1456-1468 = P. hispanica
(MVZ 178126-27) 1469-1470 = Quedenfeldtia trachyblepharus

~~SDB 1471~~

[[ 1453 - 1470 have duplicate numbers ]]

see next page for continuation

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# Double Numbers = 1453-1470

SDB 1453-1457 Morocco: Oukaïmeden. 2650m. 3 Jun

(MVZ 177922) 1453 = Discoglossus pictus
( " 177906-177909) 1454-1457 = Bufo bufo

SDB 1458 Morocco: Jmeaa M'tal, 1.7 km SE on P8
4 Jun.

(MVZ 178068) Coluber hippocrepis

SDB 1459-1487 Morocco: Oukaïmeden, ≈ 4.8 km N. 4 Jun.
Collected by native children.

(MVZ 178128-178145) 1459-1476 = Quedenfeldtia trachyblepharus
(MVZ 178312-318) 1477-1483 = Podarcis hispanica
(MVZ 178358-178361) 1484-1487 = P. perspicillata

SDB 1488 Morocco: Oukaïmeden, ≈ 4.8 km. N. 4 Jun.
Collected by native children.

(MVZ 178155) Tarentola mauritanica

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SDB 1489- Morocco: Tanger, Tingis Campground
1502 7 June.
(MVZ 177964-77) Hyla meridionalis

SDB 1503- Morocco: Grottes d'Hercules vic. N.
1505 7 Jun.
(MVZ 178159-61) Tarentola mauritanica

SDB 1506- Morocco: Tanger, 21 km. S. on P-2.
1508 8 Jun.
(MVZ 178199) 1506 = Acanthodactylus erythrurus
(MVZ 178369) 1507 = Psammodromus algirus
(MVZ 178079) 1508 = Malpolon monspessulanus +
(MVZ 178370) 1508A = P. algirus from stomach.

SDB 1509- Morocco: Cap Spartel, 4 km (air) SE
1514 8 Jun.
(MVZ 178371-178376) Psammodromus algirus

SDB 1515- Morocco: 0.4 km N. Grottes d'Hercule.
1517 9 Jun
(MVZ 178195-178197) Acanthodactylus erythrurus

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SDB 1518–1519 Morocco: Souk-Tleta-Taghramet, 7 km SSW on 8303. (= 4.0 km N on 8303 from intersection with S-601). 9 Jun 150 m.

(MVZ 177910) 1518 = Bufo bufo
(MVZ 178078) 1519 = Macroprotodon cucullatus

SDB 1520–1521 Morocco: Ksar-es-Seghir, 10.5 km S. 30 m. 10 Jun.

(MVZ 178346–178347) Podarcis hispanica

SDB 1522 Morocco: Grottes d' Hercule, 0.4 km N. 10 Jun.

(MVZ 178198) Acanthodactylus erythrurus

SDB 1523–1536 Spain: Cádiz Prov.; Farinas, between 5.7 km S. on N-340 at Río del Valle and 27.9 km SW on ~~#~~ CA-221. 12 June.

1523 = Tarentola mauritanica
1524 does not exist
1525–1528 = Psammodromus algirus
1529 = Rana perezi
1530 = R. perezi
1531 = Podarcis hispanica
1532–1533 = Natrix maura
1534–1536 = Mauremys leprosa

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SDB 1537-1549 SPAIN: Cádiz Prov.; Facinas, between 5.9 and 22.7 km SW on CA-221. 13 Jun.

1537 = Laceeta lepida
1538 = Psammodromus algirus
1539-1542 = Tarentola mauritanica
1543 = Natrix maura
1544 = Malpolon monspessulanus
1545-1549 = Podarcis hispanica

SDB 1550 SPAIN: Cádiz Prov.; ~~Facinas~~, Tarifa, ≈7.2 km N. (on N-340) at Torre de la Peña campground. 12 Jun

Bufo bufo

SDB 1551-1559 SPAIN: Cádiz Prov.; Facinas, between 0.8 km W. of km. 6 on CA-221 and 0.5 km W. of km 15 on CA-221. 13 Jun.

1551 = Vipera latasti
1552 = Bufo bufo
1553 = Macroprotodon cucullatus
1554 = Hyla meridionalis
1555 + 1557 = Bufo bufo
1556 = Discoglossus pictus
1558 = Bufo bufo
1559 = Natrix maura

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SDB 1560-1571 SPAIN: CÁDIZ PROV.; FACINAS, between 3.3 and 11.6 km SW on CA-221. 14 JUN

1560 = Mauremys leprosa
1561 = Tarentola mauritanica
1562-1569 = Rana perezi
1570 = Hyla meridionalis
1571 = Natrix maura

SDB 1572-1573 SPAIN: CÁDIZ PROV.; FACINAS, between 1.5 and 21.8 km NE of intersection of C-440 with CA-221, on CA-221. 15 JUN.

1572 = Lacerta lepida
1573 = Malpolon monspessulanus

SDB 1574-1575 SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 5.1 km S. and 3.5 km N. intersection of C-440 with CA-221 (on C-440), respectively. 15 JUN.

1574 = Tarentola mauritanica
1575 = Bufo bufo

SDB 1576-1582 SPAIN: CÁDIZ PROV.; PUNTA POLOMA, at a locality 1.3 km from N-340. 16 JUN

Acanthodactylus erythrurus

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SDB 1583-1586 MOROCCO: KSAR-ES-SEGHIR, 19.5 km ~~W.~~ E. ON S-704 (=0.1 km W. km MARKER 54). 17 JUN.

(MVZ 178290) 1583 = *Lacerta lepida*
(MVZ 178349-350) 1584-1585 = *Podarcis hispanica*
(MVZ 178395) 1586 = *Chalcides chalcides*

SDB 1587-1588 MOROCCO: KSAR-ES-SEGHIR, 13.1 km ~~W.~~ E. ON S-704 (=6.3 km W. km MARKER 54). 17 JUN.

(MVZ 178183-178184) *Tarentola mauritanica*

SDB 1589-1592 MOROCCO: KSAR-ES-SEGHIR, 9.9 km ~~W.~~ E. ON S-704 (=9.7 km W. km 54). 17 JUN.

(MVZ 178092) 1589 = *Natrix maura*
(MVZ 178065-178066) 1590-1592 = *Mauremys leprosa*
(1592 NOT SAVED)

SDB 1593 MOROCCO: ASILAH, 13.7 km. S. ON P-2. 18 JUN.

NO BODY FROZEN WHOLE. *Discoglossus pictus*

SDB 1594 UNUSED #

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1982

SDB 1595- ~~1610~~ 1611 Morocco: Asilah, ≈ 14.7 km. S. on P-2 in area of interconnected ponds/stream. 18 Jun.

(MVZ 178091) 1595 = Natrix maura
(MVZ 178055-060) 1596-1601 = Mauremys leprosa
NO BODIES 1602-1605 = Hyla meridionalis
FROZEN WHOLE 1606-1611 = Rana perezi
(MVZ 178019-24)

SDB 1612-1616 Morocco: Asilah, S. wall of Medina (on seaward side!). 18 Jun.

(MVZ 178334-38) Podarcis hispanica

SDB 1617 Morocco: 0.2 km S. Ksar-es-Seghir. 19 Jun.
(MVZ 178185) Tarentola mauritanica

SDB 1618 Morocco: 4.0 km S. Ksar-es-Seghir. 19 Jun.
(MVZ 178390) Psammodromus algirus

SDB 1619-1621 Morocco: 4.2 km S. Ksar-es-Seghir. 19 Jun.
(MVZ 178186) 1619 = Tarentola mauritanica
(MVZ 178093-178094) 1620-1621 = Natrix maura

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SDB 1622-1623 Morocco: 10.5 km S. Ksar-es-Seghir at intersection S-601 w/ 8303.
19 Jun.
(MVZ 178348) 1622 = Podarcis hispanica
(MVZ 178035) 1623 = Rana perezi DOA

SDB 1624-1625 Morocco: Ksar-es-Seghir, 0.9 km. N. S-601 ~~at~~ on 8303 (≈ 10.5 km. S. Ksar-es-Seghir).
19 Jun.
(MVZ 178187) 1624 = Tarentola mauritanica
(MVZ 178391) 1625 = Psammodromus algirus

SDB 1626 Morocco: Ksar-es-Seghir, ≈ 10.5 km S.
(= 1.0 km. N. of S-601 on 8303).
19 Jun.
(MVZ 178392) Psammodromus algirus

SDB 1627 Morocco: Ksar-es-Seghir, 12 km. E. (Rd).
19 Jun. A.O.R.
(MVZ 178188) Tarentola mauritanica

SDB 1628 Morocco: Ksar-es-Seghir, 7.8 km. E. (Rd).
19 Jun. A.O.R.
(MVZ 178036) Rana perezi

SDB 1629 Morocco: Ksar-es-Seghir, 1.1 km E. (Rd).
19 Jun. D.O.R.
(MVZ 178071) Coluber hippocrepis

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SDB 1630–1637 Morocco: Ksar-es-Seghir, 10.5 km. S. on S-601 (at intersection with 8303).
20 Jun.
(MVZ 178037-44) Rana perezi

SDB 1638–1642 Morocco: Tanger Prov.; Tanger, on Cap Malabata road just E. of Tanger.
20 Jun.
(MVZ 178005-9) Rana perezi

SDB 1643 Morocco: Tanger Prov.; 8 km W. (rd) Ksar-es-Seghir on road to Tanger.
22 Jun.
(MVZ 178072) Coluber hippocrepis

SDB 1644 Spain: Cádiz Prov.; Vejer de la Frontera, 7.1 km E. 24 Jun.
Acanthodactylus erythrurus

SDB 1645 Spain: Cádiz Prov.; Benalup de Sidonia, 11.6 km SE. 24 Jun.
Podarcis hispanica

SDB 1646–1649 Spain: Cádiz Prov.; Benalup de Sidonia, 16.9 km SE on CA-212. 24 Jun.
1646 = Psammodromus algirus
1647-1649 = Natrix maura

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SDB 1650 SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 23.1 km SE ON CA-212 AT INTERSECTION WITH C-440. 24 JUN.

1650 = Podarcis hispanica

SDB 1651–1656 SPAIN: CÁDIZ PROV.; C-440, 9.0 km S. OF INTERSECTION WITH CA-212. 24 JUN.

1651-1653 = Psammodromus algirus
1654-1655 = Rana perezi
1656 = Mauremys leprosa

SDB 1657–1658 SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 23.1 km SE ON CA-212 AT INTERSECTION WITH C-440. 24 JUN.

1657 = Podarcis hispanica
1658 = Rana perezi

SDB 1659 SPAIN: CÁDIZ PROV.; FACINAS, 19.9 km SE ON CA-221. 25 JUN.

Malpolon monspessulanus

SDB 1660 SPAIN: CÁDIZ PROV.; 4.5 km E. OF C-440 ON CA-512 TO JIMENA DE LA FRONTERA. 25 JUN.

Lacerta lepida

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SDB 1661- SPAIN: CÁDIZ PROV; 11.1 km N. CA-512
1662 ON CA-3312 (THE ROAD TO CASTELLAR DE LA FRONTERA). 25 JUN.

1661 = *Psammodromus algirus*

1662 = *Podarcis hispanica*

SDB 1663 SPAIN: CÁDIZ PROV; CASTELLAR DE LA F^TA^, 2 km S. 25 JUN.

*P. algirus*

SDB 1664- SPAIN: MÁLAGA PROV.; RÍO HOZGARGANTA
1670 AT INTERSECTION WITH C-3331 (≈ km 68). 25 JUN.

1664-1666 = *Rana perezi*

1667 = *Natrix maura*

1668 = *Mauremys leprosa*

1669 = *Podarcis hispanica*

1670 = *Psammodromus algirus*

SDB 1671 SPAIN: MÁLAGA PROV.; C-3331, 3.6 km S. INTERSECTION WITH CÁDIZ PROV. LINE (≈ 0.8 km S. km MARKER 56). 25 JUN.

*Rana perezi*

SDB 1672 SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA ~~LA FRONTERA~~, 9.3 km NNE ON CA-P-2112. 25 JUN.

*Lacerta lepida*

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SDB 1673 SPAIN: CÁDIZ PROV.; 11.7 km S. VEJER DE LA FRONTERA ON N-340. 27 JUN.

COLUBER HIPPOCREPIS
(D.O.R. - Body not saved)

SDB 1674 SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 1.9 km SE. 27 JUN.

TARENTOLA MAURITANICA

SDB 1675-1679 SPAIN: CÁDIZ PROV.; BARBATE DE FRANCO. 27 JUN.

ACANTHODACTYLUS ERYTHRURUS

SDB 1680-1683 SPAIN: ÁVILA PROV.; ARENAS DE SAN PEDRO, 8.5 km S. (C-502) AT THE RÍO TIETAR. 1 JUL.

1680-1682 = PODARCIS HISPANICA
1683 = NATRIX MAURA

SDB 1684 SPAIN: ÁVILA PROV.; CUEVAS DEL VALLE, 1.8 km. N. (C-502). 1 JUL.

LACERTA SCHREIBERI

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1982

SDB 1685- SPAIN: ÁVILA PROV.; SAN MARTÍN DE
1698 PIMPOLLAR. 1 JULY.
(MVZ 178417) 1685 = *Triturus marmoratus*
1686-1690 = *Alytes obstetricans*
1691 = *Discoglossus pictus*
1692-1695 = *Rana perezi*
1696-1698 = *Bufo bufo*.

SDB 1699- SPAIN: ÁVILA PROV.; SIERRA DE GREDOS,
1704 VICINITY OF NAVALPERAL DE TORMES. 2 JULY.
*Lacerta monticola*

SDB 1705 SPAIN: ÁVILA PROV.; SAN MARTÍN DE PIMPOLLAR.
2 JULY.
*Natrix maura*

SDB 1706- SPAIN: ÁVILA PROV; SAN MARTÍN DE PIMPOLLAR.
1711 3 JULY.
*Podarcis hispanica*

SDB 1712 SPAIN: ÁVILA PROV.; ÁVILA, 19 km WSW
(AT BRIDGE, C-502). 3 JULY.
*Lacerta lepida*

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SDB 1713–1715 SPAIN: MADRID PROV.; MANZANARES EL REAL. 4 JULY.

Psammodromus algirus

SDB 1716–1722 SPAIN: VALLADOLID PROV.; MAYORCA AT THE RÍO CEA. 4 JULY.

1716–1720 = Podarcis bocagei

1721–1722 = Natrix maura

SDB 1723 SPAIN: HUESCA PROV.; BAÑOS DE BENASQUE 12 JULY

Bufo bufo (MVZ 178416)

SDB 1724–1728 SPAIN: HUESCA PROV.; BAÑOS DE BENASQUE. 13–14 JULY.

Podarcis muralis

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1982

SDB 1729 CALIFORNIA: CALAVERAS Co.; DORRINGTON, 1 mi. (AIR) E. NW SEC. 7, T5N, R16E. 5080 FT. COLLECTED DURING FIRST WEEK OF SEP, 1982, PRESERVED 10 SEP 1982. D. B. WAKE.

EUMECES

SDB 1730 MÉXICO: MÉXICO; 4.9 km W. RÍO FRIO ON OLD MEXICO HWY 190. 3075' 22 AUG 1982 (26 OCT 82) D. DARDA, S.K. SESSIONS. (DD 160-161)

EUMECES

SDB 1731-1738 MOROCCO: RABAT-SALÉ; ≈ 10 km E. RABAT-SALÉ BRIDGE. JANUARY, 1977 (KILLED 3 NOV 1982). S. ARNOLD + L. HOUCK.

(MVZ 186083-186090) PLEURODELES WALTL

SDB 1739 CALIFORNIA: CALAVERAS Co.; CA. 0.5 mi. (AIR) SE AVERY ON E. SIDE HUNTER RESERVOIR. (NE SEC 18, T4N, R15E), 3450'. D.B. WAKE et al., 12 DEC 1982

♂ EUMECES

S.D. Busack

SDB 1740 CALIFORNIA: CALAVERAS Co.; CA. 1 mi. (AIR) W. AVERY (T4N, R14E, SEC. 12, SW corner), 3900' elev. D.B. WAKE et al. 12 DEC 1982

♂ EUMECES

S.D. BUSACK
J.A. VISNAW

SDB 1741 SPAIN: CADIZ PROVINCE; PUERTO REAL, 5.8 km E. (RD). S.D. Busack + J.A. VISNAW. 10 MAR 1983. D.O.R. 38 g, 480 mm SVL + 150 mm TAIL.

(MVZ 186256) MALPOLON MONSPESSULANUS

SDB 1742-1754 —: —; —, 2.5 km. E. 10 MAR 1983.

1742: PLEURODELES WALTL (3 LARVAE FROZEN WHOLE)

(MVZ 186105-186115) 1743-1753: P. WALTL

1754 = PELOBATES CULTRIPES (9 TADPOLES, FROZEN* WHOLE)

* DIED before freezing.

SDB 1755 —: —; —, 15.7 km E. 10 MAR 1983.

(MVZ 186118) Bufo bufo

SDB 1756 —: —; —, 2.5 km E. 10 MAR 1983.

(MVZ 186257) NATRIX MAURA

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J.A. Visnaw

SDB 1757 — Morocco: Tétouan Prov; Chechaouèn (35°10'N, 5°16'W), 4.5 km N on Chechaouèn - Tétouan highway (=P28) and then 3.2 km NE on 8304 to Oued Laou. 12 MAR 1983.

(MVZ 186136) Discoglossus pictus

SDB 1758-1775 — ___: ___; ___, ≈ 5 km S. on loop road which connects Chechaouèn with P-28. 12 MARCH 1983

(MVZ 186159) 1758 = Rana sp.
(MVZ 186244-47) 1759 - 1762 = Natrix maura
(MVZ 186141-44) 1763 - 1766 = Hyla meridionalis
(MVZ 186137-186140) 1767 - 1775 = Discoglossus pictus

SDB 1776-~~1780~~ 1779 — ___: ___; ___, 8.2 km S. on loop Rd. 13 MAR 1983.

(MVZ 186190) 1776 = Agama bibroni
(MVZ 186248) 1777 = Natrix maura
(MVZ 186224) 1778 = Psammodromus algirus
(MVZ 186146) 1779 = Discoglossus pictus

SDB 1780 — ___: ___; ___, 12.6 km S. on loop Rd. 13 MAR 1983.

(MVZ 186120) Bufo mauritanicus

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J.A. Visnaw

SDB 1781 Morocco: Tétouan Prov.; Chechaouèn (35°10'N, 5°16'W), 8.2 km S. on Loop Road which connects Chechaouèn with P-28. 13 Mar 1983

(MVZ 186145) Hyla meridionalis

SDB 1782 ____: ____; ____, 12.8 km S. on Loop Road.... 13 Mar 1983.

(MVZ 186157) Hyla meridionalis

SDB 1783-1790 ____: ____; ____, 7.2 km S. on Loop Road.... 13 Mar 1983.

(MVZ 186150-186156) 1783-1789 = Hyla meridionalis
(MVZ 186116) 1790 = Bufo bufo

SDB 1791 Morocco: Kenitra Prov.; Ouezzane, 31 km N. on P-28. 14 Mar 1983.

(MVZ 186203) Lacerta lepida

SDB 1792-1795. Morocco: Tétouan Prov.; Chechaouèn (35°10'N, 5°16'W), 5.6 km. S. on Loop Rd. which connects to P-28. 14 Mar 1983.

(MVZ 186234) 1792 = Chalcides chalcides, ~~1793 = 1794~~ =
(MVZ 186147-48) 1793-1794 = Discoglossus pictus
(MVZ 186249) 1795 = Natrix maura

S.D. Busack
J.A. Visnaw

SDB 1796-1801 MOROCCO: KENITRA PROV.; MEHDIYA-PLAGE (34°15'N, 6°41'W), AROUND RUINS OF FORT/CASTLE. 14 MARCH 1983.

(MVZ 186235-186236) 1796-1797 = CHALCIDES MIONECTON
(MVZ 186255) 1798 = MALPOLON MONSPESSULANUS
(MVZ 186166-186168) 1799-1801 = BLANUS CINEREUS

SDB 1802-1803 ___: ___; KENITRA (34°16'N, 6°36'W), 11.8 km E. 15 MARCH 1983.

(MVZ 186206-186207) PSAMMODROMUS ALGIRUS

SDB 1804-1813 ___: RABAT-SALÉ; RABAT, AT THE CHELLAH. 15 MAR 1983

(MVZ 186193-186202) PODARCIS PERSPICILLATA

THESE SPECIMENS ARE TOPOTYPES!

SDB 1814-1817 ___: KENITRA PROV.; KENITRA (34°16'N, 6°36'W), 27.1 km. E. 15 MAR 1983.

(MVZ 186251-186254) NATRIX MAURA

___: RABAT-SALÉ; RABAT, ≈ ~~12~~ 6.6 km E. OF RABAT-
SDB 1818 ~~THERE IS NO SUCH NUMBER~~
(MVZ 186163) SALÉ BRIDGE. HYLA MERIDIONALIS 15 MAR 1983

S.D. Busack
J.A. Visnaw

SDB 1819-1820 MOROCCO: KENITRA PROV.; MEHDIYA-PLAGE (34°15'N, 6°41'W), AROUND RUINS OF FORT/CASTLE. 16 MARCH 1983.

(MVZ 186169-186170) BLANUS CINEREUS

SDB 1821-1837 ___: TÉTOUAN PROV.; ASILAH (35°28'N, 6°02'W), 14 km S. 16 MARCH 1983.

(MVZ 186179-186185) 1821-1827 = BLANUS CINEREUS
(MVZ 186191) 1828 = TARENTOLA MAURITANICA
(MVZ 186097-186103) 1829-1837 = PLEURODELES WALTL
(1836 + 1837 EACH CONTAIN 3 LARVAE WHICH ARE FROZEN WHOLE).

SDB 1838 ___: ___; ___. 17 MARCH 1983.

(MVZ 186119) BUFO MAURITANICUS (TADPOLES)

SDB 1839 ___: ___; DAR CHAOUI (35°34'N, 5°44'W), 3.7 km S. 17 MAR 1983

(MVZ 186204) LACERTA LEPIDA

SDB 1840 ___: ___; ___, 4.0 km S. 17 MAR 1983.

(MVZ 186205) LACERTA LEPIDA

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J.A. Visnaw

SDB 1841 Morocco: Tétouan Prov.; Dar Chaoui (35°34'N, 5°44'W), 11.5 km. S. 17 MAR 1983.

(MVZ 186192) *Tarentola mauritanica*

SDB 1842-1849 ____: ____; Asilah (35°28'N, 6°02'W), SW wall of Medina. 18 March 1983.

(MVZ 186225-186232) *Podarcis hispanica*

SDB 1850-1857 ____: ____; ____, 14 km S. 18 MAR 1983.

(MVZ 186171-186178) *Blanus cinereus*

SDB 1858 ____: ____; Dar Chaoui (35°34'N, 5°44'W), 2.9 km S. 17 March 1983.

(MVZ 186186) *Blanus cinereus*

SDB 1859-1862 ____: ____; ____, 5.8 km. S. 17 March 1983.

(MVZ 186187-186188) 1859-1860 = *Blanus cinereus*
(MVZ 186237-186238) 1861-1862 = *Macroprotodon cucullatus*

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J.A. Visnaw

SDB 1863-1864 MOROCCO: TANGER PROV.; GROTTES D'HERCULES (35°46'N, 5°56'W), JUST SLIGHTLY N. 19 MARCH 1983.

(MVZ 186242) 1863 = Natrix maura
(MVZ 186240) 1864 = Macroprotodon cucullatus

SDB 1865 ———: ———; TANGER, 9 km SE ON TANGER-TÉTOUAN HIGHWAY. D.O.R. 19 MAR 1983.

(MVZ 186241) Coluber hippocrepis

SDB 1866-1868 ———: TÉTOUAN; VICINITY OF TANGER, INTERSECTION 601 WITH 8302, 8.4 km SW. 19 MAR 1983

(MVZ 186149) 1866 = Discoglossus pictus
(MVZ 186208-186209) 1867-1868 = Psammodromus algirus

SDB 1869-1870 ———: TÉTOUAN; ———, INTERSECTION 601 WITH 8302, 1.5 km S. ON 601. 19 MAR 1983.

(MVZ 186243) 1869 = Natrix maura
(MVZ 186233) 1870 = Podarcis hispanica

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J.A. Visnaw

SDB 1871 Morocco: Tétouan Prov.; Souk-Tleta-Taghramet (35°47'N, 5°28'W), 0.4 km NE of 601 on 8303 just S. of Souk-T...-Taghramet. 19 Mar 1983.

(MVZ 186189) Blanus cinereus ♀

SDB 1872 ____:____; ____, 3.7 km NE of 601 on 8303 just S. of Souk-T...-Taghramet. 19 Mar 1983.

(MVZ 186135) Discoglossus pictus

SDB 1873 ____:____; ____, 3.8 km NE of 601 on 8303 just S. of Souk-Tleta-Taghramet. 19 Mar 1983.

(MVZ 186239) Macroprotodon cucullatus

SDB 1874 ____:____; ____, 16.5 km NE 601 on 8303 just S. of Souk-Tleta-Taghramet. 19 Mar 1983.

(MVZ 186122) Bufo mauritanicus

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J.A. Visnaw

SDB 1875 Morocco: Tétouan Prov.; Ksar-es-Seghir (35°51'N, 5°34'W), 16.4 km E.
19 MAR 1983
(MVZ 186121) Bufo mauritanicus

SDB 1876 ——: ——; ——, 2.1 km E. A.O.R. 19 MAR 1983.

(MVZ 186158) Hyla meridionalis

SDB 1877-1882. ——: Tanger Prov.; Tanger, in ponds E. of center of town. 19 MAR 1983.

(MVZ 186091) 1877 = Pleurodeles waltl
(MVZ 186104) 1878 = P. waltl (6 larvae)
(MVZ 186160-186162) 1879-1882 = Hyla meridionalis

SDB 1883-1890 ——: Tétouan Prov.; ~~vicinity~~ vicinity of intersection S-704 with 8303, 5.4 km S. on 8303, just N. of Souk-Tleta-Taghramet (35°47'N, 5°28'W). 20 MAR 1983.

(MVZ 186164-186165) 1883-1884 = Rana sp.
(MVZ 186124-186129) 1885-1890 = Discoglossus pictus

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J.A. Visnaw

SDB 1891 Morocco: Tétouan Prov.; Souk-Tleta-Taghramet (35°47'N, 5°28'W), 3.9 km N. 601 on 8303. A.O.R. 20 MAR 1983.

(MVZ 186117) Bufo bufo

SDB 1892-~~1897~~ 1896 ——: ——; ——, between 5.2 km N. of 601 and Souk-Tleta-Taghramet on 8303. A.O.R. (rain). 20 MAR 1983.

(MVZ 186130-186134) Discoglossus pictus

SDB 1897 ——: ——; ——, 5.4 km S. S-704 on 8303. 20 MAR 1983. Dip-net.

(MVZ 186123) Discoglossus pictus (tadpoles)

SDB 1898 ——: ——; ——, 0.4 km N. 8303 on 601. A.O.R. 20 MAR 1983.

(MVZ 186250) Natrix maura

SDB 1899-1903 ——: Tanger Prov.; Tanger (35°48'N, 5°48'W) 20 MAR 1983.

Pleurodeles waltl
(MVZ 186092 - 186096)

S.D. BUSACK
J.A. VISNAW

SDB 1904-1906 SPAIN: CÁDIZ PROVINCE; FACINAS, 11.7-21.2 km N. 22 MAR 1983.

*Discoglossus pictus*

SDB 1907-1916 ——: ——; BENALUP DE SIDONIA, 18.2-23.3 km SE. 22 MAR 1983.

*Hyla meridionalis*

SDB 1917 ——: ——; ——, 14.2 km S. ON ROAD TO VEJER DE LA FRONTERA. 22 MAR 1983.

*Pelobates cultripes*

SDB 1918-1921 ——: ——; ——, 9.6 - 12.5 km S. ON ROAD TO VEJER DE LA F^TA. 23 MAR 1983

*Pelobates cultripes*

SDB 1922-1930 ——: ——; INTERSECTION C-440 WITH ROAD TO FACINAS, BETWEEN 2.3 km SW AND ~~DE~~ FACINAS. 23 MAR 1983.

1922-1924 = *Hyla meridionalis*
1925-1930 = *Discoglossus pictus*

S.D. Busack
J.A. Visnaw

SDB 1931-1932 SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 18.0 km ESE ON CA-212. 25 MAR 1983.

<u>CHALCIDES</u> <u>CHALCIDES</u>

SDB 1933-1938 SPAIN: CÁDIZ PROVINCE; FACINAS, 19.3 km NE. 26 MAR 1983.

<u>BLANUS</u> <u>CINEREUS</u>

SDB 1939-1942 ——: ——; ——, 20.1 km NE. 29 MAR 1983.

<u>TRITURUS</u> <u>MARMORATUS</u>

SDB 1943-1947 ——: ——; BENALUP DE SIDONIA, 6.9 km NNE ON CA-P-2112. 30 MAR 1983.

1943-1944 = <u>MACROPROTODON</u> <u>CUCULLATUS</u>
1945-1947 = <u>BLANUS</u> <u>CINEREUS</u>

SDB 1948 ——: ——; ——, 10.6 km NNE ON CA-P-2112. 30 MAR 1983.

<u>BLANUS</u> <u>CINEREUS</u>

S.D. Busack
J.A. Visnaw

SDB 1949 SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 11.1 km NNE ON CA-P-2112. 30 MAR 1983.

*Discoglossus pictus*

SDB 1950 ——: ——; FACINAS, 7.7 km NE. 31 MAR 1983.

*Blanus cinereus*

SDB 1951-1954 ——: ——; ——, 12.1 km NE. 31 MAR 1983.

1951-1952 = *Blanus cinereus*
1953 = *Macroprotodon cucullatus*
1954 = *Discoglossus pictus*

SDB 1955 ——: ——; BENALUP DE SIDONIA, 22.9 km SE ON CA-212. 1 APR 1983.

*Pelodytes punctatus*

S.D. Busack
J.A. Visnaw

SDB 1956 SPAIN: Cádiz Province; Benalup de Sidonia, 21.1 km SE on CA-212. 1 APR 1983

Coluber hippocrepis

SDB 1957 ___: ___; ___, 20.2 km SE. 1 APR 1983.

Macroprotodon cucullatus

SDB 1958 ___: ___; ___, 19.1 km SE. 1 APR 1983

M. cucullatus

SDB 1959 ___: ___; ___, 6.7 km NE on CA-P-2112. 2 APR 1983.

Malpolon monspessulanus

SDB 1960–1965 ___: ___; ___, 6.9 km NE on CA-P-2112. 2 APR 1983.

Blanus cinereus

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J.A. Visnaw

SDB 1966 SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 11.4 km NE ON CA-P-2112, 2 APR 1983.

*COLUBER HIPPOCREPIS*

SDB 1967 ___: ___; ___, 12.9 km NE ON CA-P-2112, 2 APR 1983

*CHALCIDES CHALCIDES*

SDB 1968 ___: ___; FACINAS, 16.1 km N. 4 APR 1983

*CORONELLA GIRONDICA*

SDB 1969-1970 ___: ___; ALCALÁ DE LOS GAZULES, 18.8 km E. ON C-440. 5 APR 1983.

*COLUBER HIPPOCREPIS*

SDB 1971 ___: ___; FACINAS, 16.2 km N. 7 APR 1983.

*CORONELLA GIRONDICA*

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J.A. Visnaw

SDB 1972-1978 SPAIN: CÁDIZ PROVINCE; FACINAS, N. TO THE FINCA CALLED "SAN CARLOS DEL TIRADERO". 8 APR 1983

1972 - 1975 = NATRIX NATRIX
1976 - 1978 = CHALCIDES CHALCIDES

SDB 1979 ——: ——; BENALUP DE SIDONIA, 9.8 km SW. 8 APR 1983.

PELOBATES CULTRIPES

SDB 1980 ——: ——; ——, 4.3 km NE ON CA-P-2112. 8 APR 1983.

PELOBATES CULTRIPES

SDB 1981-1982 ——: ——; ALCALÁ DE LOS GAZULES, 33.3 km E. ON C-440. 8 APR 1983.

TRITURUS MARMORATUS

SDB 1983-1984 ——: ——; BENALUP DE SIDONIA, 2.6 km. E. 11 APR 1983

CHALCIDES CHALCIDES

S.D. Busack
J.A. Visnaw

SDB 1985-1986 SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 7.4 km NE. 11 APR 1983.

PELOBATES CULTRIPES

SDB 1987-1988 ——: ——; FACINAS, 10.3 km N. 12 APR 1983.

CORONELLA GIRONDICA

SDB 1989 ——: ——; BENALUP DE SIDONIA, 8.0 km SE. 12 APR 1983

DISCOGLOSSUS PICTUS

SDB 1990 ——: ——; ——, 4.2 km N. ON CA-P-2112. 12 APR 1983

PELOBATES CULTRIPES

SDB 1991 ——: ——; ——, 12.0 km. S. ON ROAD TO VEJER DE LA FRONTERA. 12 APR 1983.

P. CULTRIPES

S.D. Busack
J.A. Visnaw

SDB 1992 SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 13.2 km S. ON ROAD TO VEJER DE LA FTA. 12 APR 1983.

*Pelobates cultripes*

SDB 1993-1997 CALIFORNIA: MENDOCINO CO.; LONGVALE, 0.8 MI. SE ON S. SIDE OUTLET CREEK. 1200' 20 APR 1983. D.B. WAKE, et. al.

♀ 1993 *Eumeces*
♀ 1994 *E.*
♀ 1995 *E.*
♂ 1996 *E.*
♀ 1997 *E.*

SDB 1998 ___: ORANGE CO.; SAN JUAN CAPISTRANO (HWY 5), 21.4 MI. VIA ORTEGA HWY (= RT. 74) NE IN UPPER SAN JUAN CYN. 30 APR 1983 D.B. WAKE, et al.

♀ *E.*

SDB 1999-2000 ___: SAN DIEGO CO.; COLBY SPRING, W. OF AT CAMP WOLAHI. 30 APR 1983. D.B. WAKE, et. al.

♀ 1999 *E.*
♂ 2000 *E.*

S.D. Busack

SDB 2001 CALIFORNIA: RIVERSIDE Co.; MOUNTAIN CENTER, 1.4 mi. SE. ON HWY 74. 2 MAY 1983.

♀ EUMECES

SDB 2002 ____: SAN BERNARDINO Co.; SE SLOPE OF GRANITE MTNS. 6 MAY 1983 H. W. GREENE.

♂ E.

SDB 2003 ____: SISKIYOU CO.; WINGATE CREEK AT CALIF. 96. 7 MAY 1983. R. MACEY, D. GOOD, AND R. HIGHTON (83-148).

♀ EUMECES

SDB 2004-2008 ____: ____; WINGATE CREEK ON FOREST RT. 15N32. 7. MAY 1983. R. MACEY, D. GOOD, AND R. HIGHTON (83-149).

♂ EUMECES
♀ E.
♂ E.
♂ E.
♂ E.

S.D. BUSACK

SDB 2009-2010 CALIFORNIA: SISKIYOU CO.; DOUGLAS CREEK ON HWY 96. 7 MAY 1983. R. MACEY, D. GOOD, + R. HIGHTON (83-150).

♂ 2009 EUMECES
♂ 2010 E.

SDB 2011 ___: ___; HAPPY CAMP, 8.1 MI. N. ON INDIAN CREEK ROAD. 7 MAY 1983. R. MACEY, D. GOOD, + R. HIGHTON (83-151).

♂ 2011 EUMECES

SDB 2012 ___: HUMBOLT CO.; ISHI PISHI ROAD, 1.4 MI. S. SOMES BAR. 21 APR 1983. D.B. WAKE.

♀ EUMECES

SDB 2013-2014 ___: GLENN CO.; 4.7 MI. ABOVE ROCKY RIDGE RD. ON ALDER SPRINGS ROAD. 24 APR 1983. D.B. WAKE.

♂ EUMECES
♀ E.

S.D. Busack

SDB 2015 SPAIN: MALLORCA; PORT POLLENGA, 12.5 km E. (CABO FOMENTOR). 22 APR 1983. D. M. GREEN.

(MVZ 186258) *TARENTOLA MAURITANICA*

SDB 2016 ___: ___; BANYUL BUFAR. 19 APR 1983. D.M. GREEN.

(MVZ 186259) *NATRIX MAURA*

SDB 2017 CALIFORNIA: CALAVERAS CO.; AVERY. E. OF WAKE CAN STATION I. D.B. WAKE. 15 MAY 1983.

♀ *EUMECES*

SDB 2018-2020 ___: ___; VIC. OF AVERY. CAN STATION II. D.B. WAKE, et al. 14 MAY 1983.

♀ *EUMECES*
♂ *E.*
♀ *E.*

S.D. Busack

SDB 2021 ARIZONA: ; 90 mi. (AIR) W. PHOENIX. 29 MAY 1983. OPEN CHAPARRAL 5200' HARQUAHALA MT. BRUCE JONES.

EUMECES GILBERTI ♀

SDB 2022-2024 NEVADA: WHITE PINE CO.;

2022 ♀
2023 ♀
2024 ♂

J. A. VISNAW

1983

JV 71 (MVZ 186036) SPAIN: CÁDIZ PROVINCE; ALCALÁ DE LOS GAZULES, 8.7 km E. 8 APR.

*Bufo bufo*

JV 72 (MVZ 186075) ___: ___; FACINAS ROAD AT SAN CARLOS DEL TIRADERO. 9 APR.

*Macroprotodon cucullatus*

JV 73 ___: ___; BENALUP DE SIDONIA, 0.9 km NE ON CA-P-2112. 11 APR.

(MVZ 186016) *Hyla meridionalis*

JV 74-75 ___: ___; ___, 2.6 km E. 11 APR

(MVZ 186076-77) *Macroprotodon cucullatus*

JV 76-77 ___: ___; ___, 8.2 AND 8.7 km SE ON CA-212. 12 APR.

MVZ 186037-186038

*Bufo bufo*

J.A. VISNAW

1983

JV 65 (MVZ 186069) SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 13.9 km NE. 5 APR

LACERTA LEPIDA

JV 66 (MVZ 186070) ——: ——; ALCALÁ DE LOS GAZULES, 4.3 km. E. ON C-440. 5 APR.

L. LEPIDA

JV 67 (MVZ 186054) ——: ——; FACINAS, 16.2 km NE. 7 APR.

BLANUS CINEREUS

JV 68 (MVZ 186071) ——: ——; ——, 17.1 km NE. 8 APR.

L. LEPIDA

JV 69 (MVZ 186073) ——: ——; FACINAS, 22.1 km N. 8 APR.

MACROPROTODON CUCULLATUS

JV 70 (MVZ 186074) ——: ——; SAN CARLOS DEL TIRADERO. (ON ROAD FROM FACINAS TO C-440). 8 APR

M. CUCULLATUS

J. A. VISNAW

1983

| | |
|---|---|
| JV 58 (MVZ 186053) | SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 11.4 km NE ON CA-P-2112. 2 APR. |
| | BLANUS CINEREUS |
| JV 59 (MVZ 186062) | ___: ___; ___, 6.7 km NE. 2 APR. |
| | LACERTA LEPIDA |
| JV 60-61, + 61a (MVZ 186063-186065) | ___: ___; ___, 12.1-14.2 km NE. 2 APR |
| | LACERTA LEPIDA |
| JV 62-63 (MVZ 186066-186067) | ___: ___; FACINAS, 12.2 AND 12.9 km N. 4 APR. |
| | LACERTA LEPIDA |
| JV 64 (MVZ 186068) | ___: ___; BENALUP DE SIDONIA, 5.9 km NE ON CA-P-2112. 5 APR 1983. |
| | LACERTA LEPIDA |

J. A. VISNAW

1983

JV 49 (MVZ 186052) SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 6.9 km NNE ON CA-P-2112. 30 MAR.

*TRITURUS MARMORATUS*

JV 50-51 ___: ___; ___, 11.0 - 11.1 km NNE ON CA-P-2112. 30 MAR.

(MVZ 186045) 50 = *SALAMANDRA SALAMANDRA* LARVAE

51 = *HYLA MERIDIONALIS* (MVZ 186052), *PELOBATES CULTRIPES* (MVZ 186081), *PLEURODELES WALTL* (MVZ 186080)

JV 52-53 (MVZ 186046-186047) ___: ___; FACINAS, 12.1 km NE. 31 MAR.

*SALAMANDRA SALAMANDRA*

JV 54 (MVZ 186033) ___: ___; BENALUP DE SIDONIA, 22.9 km SE ON CA-212. 1 APR.

*BUFO BUFO*

JV 55-57 ___: ___; ___, 20.0 - 20.1 km SE. 1 APR.

(MVZ 186034-35) 55-56 = *BUFO BUFO*

(MVZ 186061) 57 = *LACERTA LEPIDA*

J. A. VISNAW

1983

JV32-33 SPAIN: CÁDIZ PROVINCE; BENALUP DE SIDONIA, 10.9 – 11.3 km NNE ON CA-P-2112. 23 MAR.

(MVZ 186044) 32 = *Salamandra salamandra*
(MVZ 186011) 33 = *Pelodytes punctatus*

JV 34 (MVZ 186032) —:—; ALCALÁ DE LOS GAZULES, 19.8 km SE ON C-440. 23 MAR.

*Bufo bufo*

JV35-39 —:—; INTERSECTION C-440 WITH ROAD TO FACINAS, 5.3 km SW IN SMALL POND. 23 MAR.

(MVZ 186048) 35 = *Triturus marmoratus*
(MVZ 186012-186015) 36-39 = *Hyla meridionalis*
MVZ 186078 = TADPOLE SERIES.

JV 40-48 —:—; FACINAS, 3.3 – 21.1 km NE. 29 MAR.

(MVZ 186055-59) 40-44 = *Lacerta lepida*
(MVZ 186049-51) 45-47 = *Triturus marmoratus*
(MVZ 186060) 48 = *L. lepida*

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1983

JV 23 (MVZ 186041) SPAIN: CÁDIZ PROVINCE; FACINAS ROAD INTERSECTION WITH C-440 (= LOS BARRIOS-ALCALÁ DE LOS GAZULES ROAD), 0.6 km W. ON C-440. A.O.R. 22 MAR

SALAMANDRA SALAMANDRA

JV 24 (MVZ 186042) ——: ——; ——, 4.2 km W. ON C-440. A.O.R. 22 MAR.

S. SALAMANDRA

JV 25 (MVZ 186017) ——: ——; BETWEEN FACINAS AND BENALUP DE SIDONIA. 22 MAR. ~~NO SUCH NUMBER~~ DISCOGLOSSUS PICTUS

JV 26-30 ——: ——; BENALUP DE SIDONIA, 9.6 - 19.5 km SE ON CA-212. 22 MAR.

(MVZ 186028-031) 26-29 = BUFO BUFO

(MVZ 186043) 30 = SALAMANDRA SALAMANDRA

JV 31 (MVZ 186039) ——: ——; ——, 3.1 km S. ON ROAD TO VEJER DE LA FRONTERA. 23 MAR.

BUFO CALAMITA

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JV 1-5 SPAIN: HUESCA PROV.; VICINITY BAÑOS DE BENASQUE. 12 JULY.

(MVZ 178411-178415) EUPROCTUS ASPER

JV 6 SPAIN: HUESCA PROV.; VICINITY BAÑOS DE BENASQUE. 13 JULY.

(MVZ 178418) COLUBER VIRIDIFLAVUS

1983

JV7-16 (MVZ 186018-186027) SPAIN: CÁDIZ PROV.; FACINAS, 0.4-17.4 km N. 22 MAR 1983.

BUFO BUFO

JV 17-19 ~~20~~ NOT USED

JV 20 (MVZ 186040) SPAIN: CÁDIZ PROV.; FACINAS, 17.9 km N. 22 MAR 1983.

SALAMANDRA SALAMANDRA

JV 21-22 (MVZ 186009-186010) —: —; —, 22.3-22.5 km N. 22 MAR 1983.

PELODYTES PUNCTATUS

Busack, S.D.
Visnaw, J.A.

1982
Journal

Spain
Morocco

# SPAIN + MOROCCO

1982

S. D. BUSACK
J. A. VISNAW

WITH
ASSISTANCE
FROM

A. SALVADOR.

18 MARCH – 21 JULY

S.D. BUSACK



18 MAR 1982 SPAIN: CÁCERES PROV.; PLASENCIA, 29.3 km N. ON N630.

02P = $1.00
GASOLINE = $2.41

A flooded area to the W. of the highway produced 1 NATRIX NATRIX, and 1 DISCOGLOSSUS PICTUS under rocks in a very wet substrate. The N. NATRIX was sloughing its skin.

SPAIN: CÁCERES PROV.; PLASCENCIA, 13.3 km N. ON N 630.

We found 1 Triturus MARMORATUS beneath a rock in roadside rubble.

19 MAR 1982 SPAIN: CÁCERES PROV.; CÁCERES, AT RÍO SALOR S. ON N-630.

Investigated the pastureland to the S. of the Río and found 1 living and 1 dead (killed by a farmer) NATRIX MAURA

21 MAR 1982 SPAIN: CÁDIZ PROV.; PUERTO REAL, 3.1 km. E. ON ROAD TO MEDINA SIDONIA.

✓ Collected 5 HYLA MERIDIONALIS (SDB 872-876; ♂♂; 6, 6, 5.7, 7.3, + 6.2 g; 45, 45, 44, 45, + 47 mm SVL; H, L, I, S taken from all) and 1 ✓ NATRIX MAURA (SDB 871; ♀; 53 g, 450 + 96 mm, H, L taken) in a pond on W. side of road. Night cool, clear, water chilly, many Hyla heard calling in the distance. Chorus at this pond ceased calling around 2130 HRS after removal of 3 ♂♂. Small (≈6

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21 MAR 1982 frog) chorus.

24 MAR 1982 SPAIN: CÁDIZ PROV.; FACINAS, on the road E. to LOS BARRIOS.

Although the day was rather windy, the sun shone intermittently and Jeanne and I collected along this once oft-travelled route. When I was here in 1969-1972, this road was barely passable in a VW; now it is almost a truck route, paved and all. But the bridge abuttments and culverts still stand and the area remains much as it was 10 years ago. Mostly grazing cattle and a few goats, little cultivation.

10.3 km E. of Facinas, 1100-1200 HRS. we found 1 Psammodromus algirus (SDB 877), 2 Tarentola mauritanica (SDB 884-885), and 1 Podarcis hispanica (SDB 883) at a bridge abuttment which had a small stream passing under it. Because the Spanish government (ICONA) forbids me to take any specimen from Spain, I am adopting an abbreviated format for my catalogue and will record all data in these pages.

✓ P. ALGIRUS (877) 9.0g, 75 mm SVL, TAIL COMPLETE. Heart (H), LIVER (L), STOMACH (S), Intestine (I). Saved (DEAD x 4 HRS)

24 MAR 1982 — Podarcis hispanica (883) ♂, 2.6g, 48 SVL, Tail R; H, L, S, I.
Tarentola mauritanica (884) ♂, 7.0g, 68 SVL, 59 Tail R; H, L, S, I.
" (885) ♂, 10.5g, 74 SVL, 81 Tail C; H, L, S, I.

11.8 km E. at 310 m elevation, on a small culvert we found 2 Podarcis hispanica (881, ♂, 3.0g, 52 SVL, 103 Tail C; H, L, S, I, 1232 hrs, 29.4°C $T_b$, 19.4°C $T_A$ [~~shade~~ sun] AND 882, ♀, 3.2g, 55 SVL, 71 Tail C; H, L, S, I, 5 yolked follicles, 1235 hrs, 29.6°C $T_b$, 20.4°C $T_A$ [sun]) and 1 Tarentola mauritanica (886, ♀, 10.5g, 71 SVL, 66 Tail C; H, L, S, I, 3 yolked follicles, 1220 hrs, 19.2°C $T_b$, 16.4°C $T_A$ [shade])

12.0 km E. at 310 m elev. at 1246 hrs. we found P. hispanica (880, ♂, 3.8g, 55 SVL, 106 Tail R; H, L, S, I, 33.7°C $T_b$, 21.2°C $T_A$ [sun]).

12.6 km E. at 350 m. elev. between 1332 and 1345 hrs, we collected at the area of a large bridge. Here we started to record ambient temperature as SHADED BLACK BODY and shall continue throughout this trip as such. We watched two AGONISTIC encounters between a pair of dis-similar sized P. hispanica individuals. In each case, the larger dislodged the smaller from a crevice and the

24 MAR 1982 smaller fell to the ground -- a distance of ≈ 1 meter. While we were not successful in capturing either of these 2 individuals, the presumption is that both are ♂♂? At this large bridge, we did catch 1 P. hispanica (879, ♂, 3.6g, 55 SVL, 107 TAIL C; H, L, S, I, 1332 hrs, 27.6°C $T_b$, 21.0° $T_A$.)

12.8 km E, at 360 m, in a culvert a Natrix natrix (887, ♀, 83g, 540 SVL + 161 TAIL; H, L, S, 1410 hrs, 18.4°C $T_b$, 21.0° $T_A$, YOUNG Bufo bufo IN STOMACH).

13.1 km E at 380 m on a bridge abuttment, P. hispanica (878, ♂, 3.6g, 55 SVL, 101 TAIL R; H, L, S, I, 1446 hrs, 30.5° $T_b$, 21.0° $T_A$, stomach contained one millipede.) captured.

13.9 km E at 380 m there is a field which has a stream running through it to the S. The stream forms 2 small pools at its left fork. In this vicinity, two Discoglossus pictus (890, ♂, 9.3g, 45 SVL, H, L, S, I, 1535 hrs AND 891, ♀, 9.2g, 45 SVL, H, L, S, I, 1537 hrs) were collected in the grass along the stream. The ♀ contained many eggs. In the stream, under a piece of cardboard, was a Natrix maura (889, ♂, 10g, 245 SVL + 74 TAIL; H, L, S, 1530 hrs, 17°C $T_b$, 22° $T_A$ [WATER]). Jeanne found a Mauremys leprosa (892, ?, 98g, CARAPACE 86, PLASTRON 72; L, S, I, 1545 hrs).

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24 MAR 1982 — On our way back to the car, we found a *Bufo bufo* (888, ♀, 315 g, 142 SVL, 1600 HRS) swimming in the pond from which we had tried earlier to capture 2 juvenile *Mauremys leprosa*. Looks like it might rain.

25 MAR 1982 — SPAIN: CÁDIZ PROVINCE; ON THE ROAD E. FROM FACINAS, C-440 NW TOWARD ALCALA DE LOS GAZULES, AND THE ROAD TO BENALUP DE SIDONIA.

It rained most of today but not really hard. The winds off the ocean were very strong and we wonder about what tidings this water will bring. It is very cold for us -- we're bundled up around camp.

This evening we drove the road from Facinas to C-440. Collected were several *Bufo bufo* (893–902) whose data follow:

FACINAS, 12.9 km E. 9.4° $T_b$, 11° $T_A$, 240 m, 2040 HRS,

——, 15.0 km E, 9.8° $T_b$, 13.5° $T_A$, 200 m, 2050 HRS

——, 18.3 km E, ♀ 10.5° $T_b$, 13.5° $T_A$, 200 m, 2100; ♂ 10° $T_b$, 13.5° $T_A$, 200 m, 2100 HRS. PAIR IN AMPLEXUS ON ROAD.

——, 18.7 km E, 9.6° $T_b$, 13° $T_A$, 190 m, 2103 HRS.

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1982



25 MAR 1982

INTERSECTION WITH ROAD (C-440) TO ALCALA DE LOS GAZULES, 2.2 km NW.

One *Bufo bufo* not collected but $T_b$ = 10.6°, $T_A$ = 13°, 40 m, 2116 km.

INTERSECTION OF C-440 WITH ROAD TO BENALUP DE SIDONIA, 2.1 km S. on BENALUP ROAD, One *HYLA MERIDIONALIS* (903) ♂ at 2200 hrs, 140 m, 11° $T_A$, 3.6 g, 39 SVL, H, L, S, I, saved.

INTERSECTION OF C-440 WITH ROAD TO BENALUP DE SIDONIA, ON ~~ROAD TO~~ C-440. A series of *Bufo bufo* were examined for body temperatures only and their data are as follows:

7.3 km SE, 2215 h, 100 m, 11.6° $T_b$, 12°C $T_A$
8.2 km SE, 2225 h, 100 m, 11.2° $T_b$, 11° $T_A$
9.8 km SE, 2230 h, 100 m, 10.8° $T_b$, 10° $T_A$
10.0 km SE, 2230 h, 100 m, 11.4° $T_b$, 10° $T_A$
10.2 km SE, 2233 h, 90 m, 9.8° $T_b$, 10° $T_A$
10.6 km SE, 2237 h, 100 m, 10.2° $T_b$, 10° $T_A$
14.0 km SE, 2255 h, 40 m, 10.5° $T_b$, 9° $T_A$

and all were taken on a very rainy road. One *Discoglossus pictus* (904), ♀, 12.5° $T_b$, 10° $T_A$, 90 m, 2241 hr, 16.5 g, 52 SVL; H, L, S, I, collected 10.7 km SE.

ROAD TO FACINAS ONCE AGAIN, AND THE FOLLOWING DATA FOR *Bufo bufo* TAKEN:

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1982



25 MAR 1982

23.3 km E. of Facinas, 2309h, 0 m, 9°A.
21.6 " " " , 2320h, 20m, 10.5° $T_b$, 8° $T_A$
21.3 " " " , 2321h, 20m, 10° $T_b$, 9° $T_A$.
21.1 " " " , 2327h, 40m, 10° $T_b$, 8° $T_A$
20.8 " " " , 2330h, 40m, 10° $T_b$, 10° $T_A$.
19.5 " " " , 2334h, 100m, —, 8° $_A$

and the following data are pertinent to those specimens saved from both trips:

| # | SEX | WEIGHT | SVL | TISSUES |
|---|---|---|---|---|
| 893 | ♀ | 70g | 95 mm | H, L, S, I |
| 894 | ♀ | 110g | 107 mm | " |
| 895 | ♀ | 105g | 100 mm | " |
| 896 | ♂ | 55g | 83 mm | " |
| 897 | ♀ | 64g | 85 mm | " |
| 898 | ♀ | 57g | 90 mm | " |
| 899 | ♀ | 60g | 81 mm | " |
| 900 | ♂ | 25g | 63 mm | " |
| 901 | ♀ | 32g | 70 mm | " |
| 902 | ♂ | 19g | 55 mm | " |

Also on the return trip, we collected two Discoglossus pictus (905, ♀, 6.9g, 41 SVL; H, L, S, I, Ø m. elev., 2315h, 8° $T_A$. AND 906, ♂, 10.25g, 46 SVL; H., L, S, I, Ø m. elev, 2316 h, 8° $T_A$) at 22.3 and 22.0 km E, respectively.

The pride of the evening was seen by Jeanne Visnaw who was awake while I was simply driving. Alive on the road

25 MAR 1982 5.9 km E. of Facinas at 0020 hrs (26 MAR), 100 m, and 10° $T_A$, was a Salamandra salamandra (SDB 907), ♀, 42 g, 124 SVL + 70 Tail, H, L, S, I, Spleen taken. Specimen contains what appear to be developing follicles and was photographed in life.

26 MAR 1982 SPAIN: CÁDIZ PROV; FACINAS, ROAD E. TO C-440.

Because of continuing cold weather, we decided to work the area around this productive stretch of 1½-2 lane semi-paved road.

At the picnic ground (!!!) 2.7 km E. which incorporates the Río Almodovar Jenne found a Mauremys leprosa (908, 21.5 g, 50 mm Cara., 41 mm Plastron) at 1440 hr in a 16° C pond at 70 m elev. We continued down the road to 11.3 km E where I took a Podarcis hispanica (911, 2.5 g, 47 SVL, 45 Tail broken, ♂; H, L, S, I; 33° $T_b$, 17° $T_A$, 240 m, 1510 hr).

Upon our return to the stream flowing through a pasture at 240 m at 12.6 km E, I collected a juvenile Psammodromus algirus for the $T_b$. $T_b$ = 34.4° C, $T_A$ = 17° C.

13.2 km E, a Tarentola mauritanica was taken at 1610 hrs, 230 m, 17° $T_A$. (915, ♂, $T_b$ = 24.5° C, 6.4 g, 61 SVL + 66 Tail C; H, L, S, I).

26 MAR 1982 CONT'D.

13.9 km E, 240 m, 1635 h, a PODARCIS HISPANICA was collected but killed by the rubber band and was too old by the time we got back to camp so it was discarded. It weighed 2.8 g, was 50 SVL and 87 Tail C., ♀, and contained 4 yolked follicles, 2L, 2R.

14.0 km E, 220 m, 1640 hr, another P. hispanica (912, ♂, 31.6° $T_b$, 20° $T_A$, 4.1 g, 51 SVL and 104 Tail R; H, L, S, I).

15.3 km E, 210 m, 1700 hr, another P. hispanica found under a rock (♂, 19° $T_b$, 19° $T_A$, 1.8 g, 42 SVL + 59 TAIL R; H, L, S, I [SDB 913]) whereas all others on culverts or bridges.

15.9 km E, 220 m, 1725 hr, a NATRIX MAURA (910, ♀, 17° $T_b$, 15.5° $T_A$, under rock, 43.5 g, 425 SVL + 104 TAIL)

16.1 km E, 220 m, 1750 h, a P. HISPANICA (914, ♂, $T_b$ = 20.4, $T_A$ = 20, 2.8 g, 46 SVL + 90 TAIL R; H, L, S, I) also under a rock.

18.8 km E, 240 m, 1930 hr, a large MAUREMYS LEPROSA collected in a small pond by cork oaks (Q. suber). The pond temperature was 17°C and the specimen (909, ♀, 560 g!, CARAPACE ≈ 160, PL = 142; H, L, S, I) was resting in the water where Triturus marmoratus were also seen.

26 MAR 1982 "cont'd" 3.9 km E, 100 m, ≈ 2207 h, in a pond formed by the backwaters of the Río Almodovar, 3 *Rana perezi* (917, 5.2 g, 39 SVL ♂; 918, 17.75 g, 58 SVL ♀; 919, 49 g, 77 SVL ♀; all H, L, S, I) were collected along with one ♂ ✓ *Hyla meridionalis* (916, 5.3 g, 47 SVL; H, L, S, I)

27 MARCH FACINAS, 5.9 km S on N-340 (area of old bridge on Río del Valle) to 23.5 km E. of FACINAS on the road to C-440.

At the old bridge over the Río del Valle at 1432 h, 90 m, 31.2°C $T_b$, 22°C $T_A$, I found ✓ one *Podarcis hispanica* sunning itself. (925, ♀, 4.3 g, 57 SVL + 98 TAIL C, stomach empty, 4 shelled eggs; 2L, 2R)

18.8 km E. of FACINAS in an area of oak woodland we found a breeding pond of *Triturus marmoratus*. One adult and several larvae were seen.

23.5 km E, at the intersection of the FACINAS Road with C-440 where the old bridge has been replaced with a new one, ✓ we collected 4 *Natrix maura* under stones in the grassy fields adjacent to the stream (921, ♂, 35.75 g, 360 SVL + 105, 19.4°C $T_b$, 23° $T_A$, fish in stomach; 922, ♂, 19.0 g, 289 + 81 mm, 19.4°C $T_b$, 19.5° $T_A$, earthworm in stomach; 923, ♂, 18 g, 295 + 89 mm, stomach empty; 924, ♂, 5.8 g,

27 MAR CONT'D 201 + 57 mm, empty stomach [under rock with 923 and 926]). We searched this 80 m locality between 1600 and 1706 hrs and also found Mauremys leprosa (920, 70 g, C77 + P63) in a small backwater and one Chalcides chalcides (926, ♀, 14 g, 141 SVL + 153, tail complete) was also taken.

SPAIN: CÁDIZ PROV.

28 MAR Facinas, 8.0 km S. on N-340 on road to San Bartolomé.

It was pretty cold today so we decided to collect along this road today. There is a stone wall which follows the road up away from the highway and we walked along the stone wall turning stones, etc.

Here we collected:

Psammodromus algirus (927, ♂, 12.75 g, 79 SVL, 196 Tail C, $T_b = 33.5°C$, $T_A = 25°C$, 80 m, 1500 hrs, with animal previously in sun).

Hemidactylus turcicus under a rock on the stone wall (928, ♂, 0.9 g, 36 SVL, 15 Tail R)

Lacerta lepida under a rock on windward side of hill (931, 94 g, ♀, 155 SVL + 314 Tail C)

2 Natrix maura, largest under a rock and smallest "basking" fully submerged in the

28 MAR "CONT'D" stream (929, ♂, 12.75g, 260 SVL + 82; 930, ♀, 1.8g, 130 SVL + 31, at 1600 hrs). H, L, S, I on all.

29 MAR FACINAS, 1-25 km E, CÁDIZ PROV, SPAIN.
Because it is raining heavily today and we're in need of supplies, we are going into TARIFA and ALGECIRAS. This evening we will drive the road between FACINAS and its intersection with C-440.

Between 2000 and 2400 hrs, we drove the highway in search of specimens. We did well:

RANA PEREZI (932, ♂, 11.5g, 45 SVL; H, L, S, I)
(933, ♂, 9.8g, 46 SVL; ")
(934, ♀, 31.5g, 65 SVL; ")
(935, ♀, 27.75g, 66 SVL; ")

DISCOGLOSSUS PICTUS (936, ♀, 10.5g, 48 SVL, ")
(937, ♀, 12.25g, 50.0 SVL, ")
(938, ♀, 13.50g, 55 SVL, ")
(939, ♀, 12.5g, 51 SVL, ")
(940, ♀, 14.0g, 55 SVL, ")
(941, ♀, 8.8g, 47 SVL, ")

HYLA MERIDIONALIS (942, ♂, 5.2g, 44 SVL, ")
(943, ♀, 7.4g, 48 SVL, ")
(944, ♀, 5.2g, 41 SVL, ")
(945, ♀, 7.2g, 49 SVL, ")
(946, ♂, 5.5g, 44 SVL, ")
(947, ♂, 4.5g, 43 SVL, ")

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29 MAR "CONT'D"

(948, ♀, 4.4g, 40 SVL; H, L, S, I)
(949, ♂, 4.1g, 40 SVL, " )
(950, ♂, 3.7g, 38 SVL, " )

<u>SALAMANDRA SALAMANDRA</u>

(951, ♂, 21.5g, 98 SVL + 46, fed on small mollusks)
(952, ♂, 16.5g, 88 SVL + 48, fed on small mollusks and sowbug)
(953, ♀, 32.0g, 115 SVL + 74, fed on small mollusks and a snail — tissues in liquid N not tagged inside)

These three specimens were taken at 11.9, 12.0, and 13.9 km E. of Jeciar after 2300 hrs. It seems that <u>Salamandra</u> does not start moving until <u>very</u> late.

30 MAR

SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, 12.7 km WNW to ALCALÁ DE LOS GAZULES, 23.5 km SSE ON C-440.

We finally got a good evening rain while we were out on the road and collected in this area of the province which becomes my 2^ND area for amphibian comparison. To accomodate all the data while not wasting paper and time, I will hereby abbreviate where I caught these animals and, at the end of the entry for 30 MAR, will be found their measurements, weights, etc.

30 MAR "CONT'D"

HYLA MERIDIONALIS:

BENALUP DE SIDONIA, 12.7 (40m), 12.5 (50m), 12 (50m), 11.6 (40m), km WNW AND 1.3 (0m) km NE. ALCALÁ DE LOS GAZULES, 4.8 (40m), AND 10.7 (0m) km S. TEMPERATURE (A) between 15-17°C.

PELOBATES CULTRIPES:

BENALUP DE SIDONIA, 10.5 (20m, 16.5°), km WNW, " , 4.3 (10m, 15°) km NE. ALCALÁ DE LOS GAZULES, 9.6 (0m, 13°) km S.

BUFO bufo:

BENALUP DE SIDONIA, 10.1 (30m, 16°), km WNW, 15.7 (20m, 15°, 2230) km NE.

ALCALÁ DE LOS GAZULES, 11.4 (0m, 2335), 15.5 (20m, 13°, 2350), 22.1 (220m, 11.5°), 23.5 (170m, 13.5°) km S. [+ 8.9 km S, 14°]

PLEURODELES WALTL:

Benalup de Sidonia, 7.3 (20m, 16°) km WNW.

ALCALÁ de los GAZULES, 7.0 (0m, 13°), 8.1 (0m, 13.5°), 8.8 (0m, 13°), 9.6 (0m, 13°), 2 at 10.9 (0m, 13°), 11.0 (0m), 11.9 (0m, 14°, 2340), + 11.4 (0m, 2335) km S.

SALAMANDRA SALAMANDRA:

BENALUP DE SIDONIA, 9 (20m, 15°, 2200, OAK WOODLAND) + 10.8 (30m, 14°C, 2210) km NE.

30 MAR "CONT'D" ALCALÁ DE LOS GAZULES, 1.8 (80m, 14°, 2045), 1.9, + 17.0 (30m, 13.5°, 2355) km S. ON C-440. 2 seen DOR AT 30.3 km S. (NOT SAVED).

FACINAS, 18.6 (0050 hrs, 31 MAR) AND 9.3 km E. (120 m, 0121 hrs).

RANA perezi:

BENALUP DE SIDONIA, 17.5 km NE (80m, 14°).

FACINAS, 7.5 (120m, 0130, 31 MAR) + 1.1 km E (30m, 0145 h, 31 MAR).

TRITURUS MARMORATUS were seen but not collected 9.0 km S. of Alcalá

The data for all these are:

| | | | | | | |
|---|---|---|---|---|---|---|
| | 954 | Discoglossus pictus | ♀ 8g | 47 mm SVL | | H,L,S,I. |
| ✓ | 955 | Hyla meridionalis | ♀ 7.5 | 45 | | " |
| | 956 | " | ♀ 6.3 | 44 | | " |
| | 957 | " | ♂ 4.5 | 41 | | " |
| | 958 | " | ♂ 4.1 | 41 | | " |
| | 959 | " | ♂ 3.6 | 38 | | " |
| | 960 | " | ♂ 4.4 | 42 | | " |
| | 961 | " | ♂ 4.0 | 37 | | " |
| | 962 | " | ♂ 3.5 | 38 | | " |
| | 963 | Pelobates cultripes | ♀ 80.0 | 86 | + BLOOD | " |
| | 964 | " | ♀ 41.5 | 73 | + BLOOD | " |
| | 965 | " | ♀ 46.7 | 76 | + BLOOD | " |
| SMALL MOLLUSKS | 966 | Salamandra salamandra (TESTES) | ♂ 15g | 86+47 | BLOOD | " |
| MOLLUSKS, SNAILS | 967 | " | ♀ 24.5g | 98+65 | BLOOD | " |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 30 MAR | 968 | S. salamandra | ♀ | 40.5 g | 122+69 mm | BLOOD | H, L, S, I, |
| "CONT'D" | 969 | " | ♀ | 49.75 | 127+79 mm | | " |
| | 970 | " | ♀ | 47.5 | 133+80 mm | | " |

MOLLUSKS, SNAILS, & MILLIPEDES IN GUT.

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | Rana perezi | ♀ | 70.0 SVL, | 36.5 g, | | H, L, S, I. |
| 972 | Bufo bufo | ♀ | 205 g | 123 SVL | | " |
| 973 | " | ♀ | 140 | 112 | | " |
| 974 | " | ♀ | 150 | 115 | | " |
| 975 | " | ♀ | 105 | 98 | | " |
| 976 | " | ♀ | 120 | 115 | | " |
| 977 | " TESTES | ♂ | 28.75 | 65 | | " |
| 978 | " | ♀ | 84 | 93 | | " |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Brown liver | 979 ↑ BLOOD | Pleurodeles waltl | ♀ | 28.25 g | 100+90 | H, L, S, I |
| Brown " | 980 | " | | ♀ | 29.25 | 104+96 | " |
| Red liver | 981 | " | | ♀ | 32.0 | 112+95 | " |
| " | 982 | " | TESTES | ♂ | 19.25 | 93+109 | " |
| Brown liver | 983 | " | " | ♂ | 30.25 | 99+111 | " |
| Red liver | 984 | " | | ♀ | 18.25 | 86+83 | " |
| " | 985 | " | TESTES | ♂ | 22.75 | 97+115 | " |
| " | 986 | " | " | ♂ | 24.5 | 95+102 | " |
| " | 987 | " | | ♀ | 19.5 | 101+99 | " |
| " | 988 ↓ | " | | ♀ | 13.75 | 81+72 | " |

31 MARCH SPAIN: CÁDIZ PROV.; FACINAS ROAD.

Spent most of the day preparing tissues and specimens. Took a short drive to C-440 on the Facinas Road.

1.1 km – 21.3 km ~~19.9 km~~ E. of FACINAS, we collected

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31 MARCH "CONT'D" two Rana perezi (2300 hrs, 80 m, [989], 39.5 g, 73 SVL, ♀ with hair in stomach and [990], 34 g, 67 SVL ♂, saved testes) AND 3 Salamandra salamandra ([991], 48 g, 131 + 80 mm, ♀; [992], 49.5 g, 135 + 86 mm, ♂, TESTES; [993], 38.5 g, 120 + 72 mm, ♀; H.L.S.I. ON ALL).

19.1 km - 5.8 km E, ON RD. TO C-440, R. perezi (994, 33.5 g, 66 SVL, ♀, H,L,S,I) AND Salamandra salamandra (995, 34.5 g, 120 + 22 SVL [TAIL BROKEN], ♀, H,L,S,I)

1 APRIL SPAIN: CÁDIZ PROV; RUINAS DE BOLONIA, AND VICINITY OF FACINAS.

RUINAS DE BOLONIA, 0.9 km E between 1600 - 1620 hrs, under rocks, 2 Natrix maura (966, ♂, 19 g, 307 + 99 mm; 967, ♀, 27 g, 341 + 24 mm [BROKEN TAIL]; H,L,S,I).

FACINAS, 7.0 km E. under a rock a small Lacerta lepida (~~96~~ 959, ♂, 10.5 g, 77 + 107 mm, BLOOD).

And from Algeciras, Playa Rinconcillo, we were brought a Lacerta lepida (960, ♀, 125 g, 175 + 223 mm, Blood + H,L,S,I).

FACINAS, 8.7, 9.7, AND 8.7 km E, one Tarentola mauritanica each (963, 1750 h, ♀, 8.4 g, 68 + 61 R; 964, 1800, 150 m elev, 7.5 g, 63 + 57 R, ♀; 965, 1837 hrs, 120 m, 11.5 g, 74 + 70 mm, ♂, TESTES; H,L,S,I from all).

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2 APRIL
[TIMES CONVERTED DAYLIGHT SAVINGS]

SPAIN: CÁDIZ PROV; FACINAS VICINITY

Today we were joined by Alfredo Salvador and decided to work only the Facinas road. Below is what we found — clear mostly, some wind.

FACINAS, 8.7 km E, 80 m, 2 TARENTOLA MAURITANICA (954, ♂, 5.65 g, 60+66 mm C; 961, ♀, 4.2 g, 55+54 C; H,L,S,I). 17.0 km E, 160 m, 1041 h, LACERTA LEPIDA (955, 125 g, 166+231 R, ♀, H,L,S,I). 19.6 km E, 1050 h, TARENTOLA MAURITANICA (962, ♂, 8.2 g, 67+71 mm C, TESTES). 22.8 km E, 1130 hr, one LACERTA lepida (956, 130 g, 161+313 C, ♂, TESTES, H,L,S,I). And at the junction of C-440 (=23.5 km E. FACINAS) we worked from 1300-1400 to capture:

NATRIX NATRIX (969, 4.2 g, 180+45; H,L,S,I)

COLUBER HIPPOCREPIS (968, 225 g, 907+187, ♂, TESTES, Blood)

and returned to 20.5 km E. of FACINAS at 1451 hr to take another L. lepida (957, ♀, 51 g, 130+223 C) and at 19.7 km E, 2 BLANUS CINEREUS (975, 2.5 g, 142+18; 976, 1.6 g, 125+15 — H,L,S,I, Blood) and a L. lepida (958, ♂, Blood, H,L,S,I), and a PSAMMODROMUS ALGIRUS (978, ♀, 9.3 g, 75+170 C, Blood + H,L,S,I), a L. lepida sighted at 11 km marker.

From FACINAS ~~[illegible]~~ (~~[illegible]~~), one MACROPROTODON CUCULLATUS was given to us (970, ♂, 45 g, 416+55, H,L,S)

2 APR "CONT'D" by some passing soldiers.

From the FACINAS RESERVOIR area we were given:

Blanus cinereus (977, 1.5g, 117+15, H,L,S,I, Blood)
Psammodromus hispanicus (979, 1.2g, 40+32R, ♀, H,L,S,I, Blood)
Macroprotodon cucullatus (971, 23g, 355+66, ♂, H,L,S,I.)
Lacerta lepida (974, 5.0g, 60+102C, ♂, H,L,S,I.).

3 APR SPAIN: CÁDIZ PROV.; FACINAS — BENALUP DE SIDONIA ROAD.

FACINAS, 19.8 km E, 140m, 1123h, AND 21.6 km E, 50m, 2 L. lepida SHOT (972, 140g, 169+299 C, ♂; 973, 21.2° $T_B$, 18° $T_A$, 62g, 135+233C (TIP BROKEN BY COLLECTOR), ♀; H,L,S,I from both.

C-440 INTERSECTION WITH THE ROAD TO BENALUP DE SIDONIA, 0.2 km W, 140m, 1230-1300 hrs, 2 Podarcis hispanica (981, 2.1g, ♀, 49+77 C, YOLKED FOLLICLES, 2R, 1L SIDE; 982, 2.8g, ♀, 54+96C, YOLKED FOLLICLES, 2R — H,L,S,I Blood from each). 0.4 km W, 140 m, 1320h, one Coluber hippocrepis (985, 19.5g, 370+99, ♂, H,L,S,I), and Bufo bufo (988, 105g, 102 SVL, ♂, H,L,S,I, and Podarcis hispanica (983, 2.8g, ♀, 53+62 R, 2 shelled eggs R, 1 shelled egg L., H,L,S,I), Elaphe scalaris (993, PHOTO, 280g, ♀, 795+138, Blood only), Rana perezi (989, ♀, 48g, 72 SVL, Blood, H,L,S,I), Hyla meridionalis (991, ♂,

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3 APR "CONT'D" 4.7g, 42 SVL, H,L,S,I) ~~taken~~.

1.7 km W, 150 m, 1430 h, another Podarcis hispanica (984, 2.9g, ♂, 52+34 Broken, 28.8° $T_B$, 23° $T_A$, overcast) ~~taken~~ along with a Natrix maura (986, 24.75g, ♂, 295+96, testes, H,L,S,I).

2.45 km W, in a field at 160 m between 1530 and 1600, we collected under rock:

Macroprotodon cucullatus (987, 21.25g, ♂, 332+62)
Lacerta lepida (994, 96g, 151+276 C, ♂ and 995, 92g, 154+299 C, ♀; H,L,S,I from each)

1.75 km W, under a tin plate at 150 m and 1650 hrs, one Chalcides chalcides (992, 7.1g, 109+123 C, ♂, $T_A$ 18.5°, cloudy, testes).

Alfredo Salvador brought one Rana perezi (~~980~~ 990, 40.5g, ♀, 73 SVL) from 0.8 km W of the C-440 intersection and a Psammodromus hispanicus (980, 1.9g, 45+23 Broken, ♀, H,L,S,I, Blood) which he got at the 20 km marker on this same road.

4 APR SPAIN: CÁDIZ PROV; FACINAS, ROAD TO C-440 EAST. during the evening and later to INTERSECTION with the road to Benalup de Sidonia, over CA-P-2112 to ALCALÁ de los GAZULES, and return VIA C-440 to CAMP.

FACINAS, 5.0 km E, 2145 h, 50 m, 1 Rana perezi (996, 42.5g, ♀, 77 SVL, H,L,S,I) AND

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4 APR "CONT'D" another at 5.8 km E, 100 m, 2150 h (997, ♂, 20.25 g, 58 SVL, H, L, S, I, TESTES, 15.5°C $T_A$). 7.5 km E, 80 m, 2156 h, 14.5° $T_A$, 1 *Discoglossus pictus* (998, ♂, 27 g, 63 SVL, H, L, S, I, Blood, testes).

C-440 INTERSECTION WITH ROAD TO BENALUP DE SIDONIA, 4.9 km NW, 140 m, 2305 hr, 15° $T_A$, one *Natrix maura* (DOR, 1000, ♀, 54 g, 413+58 mm, H, L, S) and 7.6 km NW, 100 m, 2312 hrs, 14°, *Bufo bufo* (1001, ♀, 90 g, 95 SVL, H, L, S, I) and 8.2 km NW ANOTHER *B. bufo* (1002, ♂, 27.75 g, 63 SVL, HLSI) at 100 m, 2314 hrs. 8.9 km NW, 140 m, 2317 h, one *Discoglossus pictus* (999, ♂, 8.7 g, 46 SVL, HLSI TESTES).

ALCALÁ DE LOS GAZULES, 18.0 km S. ON C-440, 80 m, 0049 hrs [5 APR], one *Rana perezi* (1003, 28.75 g, 65 SVL, ♀, HLSI)

ALGECIRAS, PLAYA RINCONCILLO, one *Chalcides chalcides* (1004, ♂, 13.5 g, 139+153 C, HLSI) brought in by german collector.

5 APR SPAIN: CÁDIZ PROV; FACINAS RESERVOIR AREA.

Collected in this area with Alfredo Salvador, elev. ≈ 50 m.

One *Natrix maura* ($T_b$ = 22.6, $T_A$ = 19, 1615 hrs) observed.

Several *Psammodromus hispanicus* collected and the data are as follows:

1006, ♀, 1.8 g, 43+51.5 C, $T_b$ = 24.5, $T_A$ = 19°

5 APR "CONT'D" 1540 hrs, 2L + 2R yolked follicles, HLSI, Blood.
1007, ♀, 2.1g, 45+56C, $T_b$ = 29.8, $T_A$ = 22, 2L+2R yolked follicles, HLSI, Blood.
1008, ♀, 1.3g, 39+55C, $T_b$ = 33, $T_A$ = 21, 1710 hrs, imm., HLSI, Blood.
1009, ♂, 1.9g, 40+57C, $T_b$ = 30, $T_A$ = 20, 1717 hrs, HLSI, Blood, testes.
1010, ♂, 1.8g, 41+65C, HLSI, Blood, testes
1011, ♀, 2.5g, 51+8B, 3 yolked foll. L + 3R, HLSI Blood.
1012, ♀, 2.1g, 45+21B, 2 yolked L + 2R, HLSI, Blood.
1013, ♂, 1.8g, 42+68C, HLSI Blood, testes.
and 1 Blanus cinereus found (1005, ♂, 4.5g, 172+18, testes, HLSI).

6 APR SPAIN: Cádiz Prov.; Benalup de Sidonia, CA-P-2112 to the NE toward Alcalá.
Drove the road checking culverts and bridge areas. Found Tarentola mauritanica at 0.1, 0.4, 0.6, 1.0, 2.1, and 2.2 km E. Their data follow:
✓ 1014, 20m, 1130 hr, ♂, 10.25g, 70+80C, HLSI, Blood
✓ 1015, 0m, 1150, ♂, 18.75g, 85+75B, HLSI, Blood, $T_b$ = 29.8, $T_A$ = 26° [tail broken in capture]
✓ 1016, 0m, 1155, ♂, 16.50g, 79+59R, HLSI, Blood, testes $T_b$ = 28°, $T_A$ = 23°
✓ 1017, 0m, 1212, ♂, 8.1g, 66+28B, HLSI, Blood, testes. $T_b$ = 30, $T_A$ = 25°.
✓ 1018, 1245, ♀, 7.8g, 66+54R, Yolked follicles: 1L + 1R, HLSI, Blood,

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6 APR "CONT'D" (1018) $T_b = 35.6$, $T_A = 29°$.

1019, ♀, 5.4g, 61+57R, 1300 hrs, HLSI, Blood.

1020, ♀, 6.3g, 64+5B, 1310 hrs, HLSI, Blood.

One *Hemidactylus turcicus* found at 1.0 km NE, 0 m, 1210 hrs (1021, ♀, 3g, 51+58C, HLSI, $T_b = 23.2$, $T_A = 25°$).

Two *Rana perezi* (1024, ♀, 39g, 75 SVL, 1330h; 1025, ♀, 52g, 78 SVL, 1720, HLSI) collected at 2.8 and 9.1 km E.

Two *Psammodromus algirus* (1022, ♀, 8g, 76+109R; 6 yolked follicles R, 4 L; $T_b = 34.5$, $T_A = 23.5°$ and 1023, ♂, 9.3g, 70+189C, $T_b = 35.2$, $T_A = 26°$, HLSI) at 4.5 km E, 10 m, 1358 and 8.0 km E, 40 m, 1600 hr, respectively.

One *Coluber hippocrepis* seen on a fence post at 6.6 km E.

One *Malpolon monspessulanus* (1027, ♂, 260g, 824+280mm, $T_b = 30°$, $T_A = 23°$) at 6.9 km E at 1530 hrs. Contained one *Macroprotodon cucullatus* (1027, 8.6g, 241+49, ♂) in stomach -- recently ingested.

One *Natrix maura* (1026, ♂, 18g, 289+85 mm, $T_b = 28.5$, $T_A = 26°$) at 8.0 km E. at 1600 hrs

Alfredo Salvador brought in 3 *Mauremys leprosa* (1028, 440g, C 149, P Broken; 1029, 100g, 85 C, 77 Plastron; 1030, 35g, C 62, P 55; HLSI + Blood from all.)

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7 APR SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, CA-P-2112 NE TO ALCALÁ DE ~~SIA~~ LOS GAZULES.

Another day on this productive road.

At 2.2 km E, 1430-1440 hrs, Jerome found a MAUREMYS LEPROSA (1039, 6.5 g, C 31, P 26) from which we took H, L, S, I.

Six LACERTA LEPIDA were taken from 2.2, 10.7, 10.7, 13.9, 14.0 km E, and Alfredo got one S. of Benalup. Their data are as follows:

1043, ♂, 105 g, 160 + 303 C, HLSI.
1041, ♂, 14.25 g, 81+151 C, $T_b$ = 28, $T_A$ = 23, HLSI.
1042, ♂, 8.6 g, 72+49R, $T_b$ = 30, $T_A$ = 23, HLSI
1044, ♂, 215 g, 189+291C, 1741 hrs, HLSI
1045, ♀, 140 g, 175+315 C, 1745 h, $T_b$ = 33.8, $T_A$ = 23, 30 m,
1046, ♂, 145 g, 179+40B, HLSI.

Two PODARCIS hispanica at 9.7 and 10.2 km E (60 + 70 m, respect.) (1035, ♂, 3.8 g, 53 + 105 R, $T_b$ = 34.8, $T_A$ = 23°, 1550 h; 1036, ♀, 2.9 g, 55 + 57R, $T_b$ = 30.6, $T_A$ = 23°, 1602 h, 2 SHELLED EGGS R [11×6, 11×7 mm] + 1 L (13×5 mm)

Two TARENTOLA MAURITANICA AT 10.7 (under rock) and 11.4 (CULVERT) km E (1033, ♂, 9.2 g, 70 + 75 c, $T_b$ = 18.5, $T_A$ = 23; 1034, ♀, 7.9 g, 67 + 57R, $T_b$ = 24.5, $T_A$ = 21, HLSI from both)

One SALAMANDRA SALAMANDRA AT 10.7 km E. (1032, 1.8 g, 40+23 mm)

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7APR "CONT'D" One Blanus cinereus at 11.4 km NE (1038, ♀, 1.0 g, 96 SVL + 11 TAIL, HLSI).

Alfredo Salvador brought in one DOR Malpolon monspessulanus (1031, 71g, 586+195) and one Natrix maura (1040, ♂, 29.25g, 371+109) from close to Benalup and one Podarcis hispanica (1037, ♂, 3.1g, 56+6B, HLSI) from km 69 on C-440 S. of Alcalá de los Gazules.

8 APR SPAIN: CÁDIZ PROV; BENALUP DE SIDONIA, CA-P-2112 TO THE NE.

Three Psammodromus algirus from 4.7, 6.7, and 7.1 km NE, all 30m elev, (1058, ♀, 2.6g, 46+135, $T_b$=34.8, $T_A$=26, 1320 h; 1053, ♂, 8.7g, 70+185, $T_b$=30.6, $T_A$=28; 1057, ♂, 2.6g, 47+74R, $T_b$=30.4, $T_A$=27)

Two Lacerta lepida from 6.7 km NE (20 m) + 6.7 km NE (20 m) (1061, ♀, 20.75g, 93+168 C, $T_b$=33.8, $T_A$=25°; 1062, ♂, 160g, 185+292C, $T_b$=31.3, $T_A$=24.5).

One Podarcis hispanica (1060, ♂, 4.7g, 57+111, $T_b$=34.7, $T_A$=24) from 6.7 km E at 20 m.

One Triturus marmoratus (1075, ♀, 6.0g, 62+54, BLOOD ONLY) from 6.7 km E., 20m.

Three Blanus cinereus from 7.1 km NE AT 30 m - all under rocks on hillside.

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8 APR "CONT'D"

The data for the Blanus are as follows:
1054, ♀, 8.6g, 241+9
1055, ♂, 8.8g, 214+26
1056, ♂, 6.3g, 182+22 mm
and all taken between 1500-1630.

One *Tarentola mauritanica* from 7.1 km NE (1059, ♂, 10.5g, 75+80C).

Alfredo Salvador worked on the Facinas Road and from km 22 he found one *Macroprotodon cucullatus* (1049, ♂, 4.1g, 184+35, HLSI) and from km 13 came:

*Macroprotodon cucullatus* (1050, ♀, 6.6g, 208+34, 220 m, small *P. algirus* in stomach)

*Salamandra salamandra* (1047, 1.2g, 34+20)

*Coronella girondica* (1063, ♂, 18g, 333+92, *P. hispanica* in stomach, on a tree, PHOTO)

*Blanus cinereus* (1051, ♀, 0.9g, 88+11)

*Psammodromus algirus* (1052, 1.2g, 38+73C)

*S. salamandra* (1048, ♂, 12.75g, 81+50)

9 APR

SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA, CA-P-2112 NE TO ALCALÁ DE LOS GAZULES.

Worked in this area with Alfredo Salvador. From 7.1 km NE:

One *Natrix natrix* (1071, ♂, 21g, 370+110 mm, $T_b = 29.2$, $T_A = 28$)

Three *Blanus cinereus* (1066, ♀, 1.4g,

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9 APR "CONT'D" 110 + 12) (1067, 9.7g, ♀, 227 + 25; 1068, 7.9g, ♂, 200 + 7 - HLSI from all).

Two Macroprotodon cucullatus (1069, ♀, 18.5g, 334 + 61; 1070, 22g, ♀, 383 + 68)

✓ One Podarcis hispanica (1064, ♀, 3.1g, 52 + 73R; 2 shelled eggs R [12x7, 11x7 mm] one L. [13x8]).

✓ One Psammodromus algirus (1065, ♀, 2.9g, 50 + 126 C)

One Triturus marmoratus (1076, ♀, 4.7g, 58 + 49, Blood only)

From 8.2 km NE we found one Mauremys leprosa (1074, ♂, 210g, 117 C, 100 P, at 1533 h), one Chalcides chalcides (1072, ♂, 5.0g, 104 + 119 C), and one Rana perezi (1073, ♀, 12.5g, 52 SV) from which HLSI were taken.

Camping Torre de la Peña, Tarifa, Cádiz.

10 APR In camp; loading up A. Salvador with specimens, doing laundry, preparing for Morocco.

11 APR Spain: Cádiz Prov.; Facinas, 11.9 km E. on CA-221 and 19.7 km E. on CA-221.

We decided to collect locally today because of our having to go to Cádiz and Sanlúcar tomorrow to refill the Nitrogen tank at Iberica AGA, Zona Franca, Cádiz. But, luck

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11 APR "CONT'D" was with us.

At 11.9 km E., 220m, we found one MACROPROTODON CUCULLATUS (1086, ♂, 36.5g, 400+81 mm, HLSI) and at 19.7 km E. we found 7 BLANUS CINEREUS whose data follow:

1079, ♀, 0.8g, 85+11, HLSI
1080, ♂, 5.0g, 173+22, "
1081, ♀, 4.3g, 165+21, "
1082, ♀, 3.5g, 162+21, "
1083, ♀, 3.0g, 150+19, "
1084, ♂, 2.4g, 133+17, "
1085, ♂, 4.5g, 181+7, "

Since there appears to have been rain to the N. of here, we decided to make one last early spring run to Benalup de Sidonia. From 5.4 and 7.0 km NE of BENALUP on CA-P-2112, we took two PELOBATES CULTRIPES (1087, ♂, 43g, 74 SVL; 1088, ♂, 45g, 73 SVL) and from 8.8 km NE we got one RANA PEREZI (1089, ♀, 38g, 73 SVL). At 12 km NE we took a 9.9g, 47 SVL, ♀ DISCOGLOSSUS PICTUS (SDB 1090).

On the trip home, we drove to 0.8 km S. of BENALUP and took our third P. cultripes for the evening (1091, ♀, 53g, 80 mm SVL).

12 APR SPAIN: CÁDIZ PROV.; TARIFA - CÁDIZ - SANLÚCAR - ALGECIRAS - LOS BARRIOS.

12 APR "CONT'D"

Today we prepared the specimen from last night, drove to CÁDIZ to refill the N tank, change some money, see LUIS HIDALGO and his son, the BIOLOGIST, JAVIER, who works with JAVIER CASTROVIEJO at DOÑANA. Pleasant enough, but was amused at how lightly he tread upon the subject of my working in Spain again. At any rate, I suspect that the 17 L. N. tank will be safe enough with them.

LATER we stayed at the 4 Star Hotel GUADACORTE -- $36.27 for 2 + breakfast. A nice place to visit, and quite reasonable on U.S. standards.

Couldn't resist driving, once again, the roads around LOS BARRIOS in search of specimens on this somewhat rainy night. We drove N. on the road to Jimena de la Frontera to where it intersects with CA-512 and turned W. onto CA-512 toward C-440 and Los Barrios. At 8.6 km N. of Los BARRIOS (Road distance up C-440, then E. onto CA-512) (OR 6.7 km W. of the intersection of the Jimena road with CA-512 on CA-512) we found one SALAMANDRA SALAMANDRA (1092, ♀, 34.5g, 113+68)

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13 APR — Shopping at Hipermercado Continente in preparation for the trip to Ceuta. Ferry ride to Ceuta ($41 ++) for 2 persons and one car), customs (HA! - one hour of filling out forms for different un-uniformed persons to see -- Morocco has no government), and into Morocco and camping at Martil (cheap at $1.40/night, expensive when you consider what you get). Morocco still continues to not impress me. It is, by and large, a dump.

14 APR — Martil - Ksar-es-Seghir - Tanger - Tetouan - Chechaouèn.

5.6 DH = $1.00
Gasoline = $2.90/gal.

Searching for a study site proved to be pretty frustrating. Most of this part of Morocco has been deforested completely and what has not eroded away is being intensively farmed. We checked a few places along the way and Tarentola mauritanica and Podarcis hispanica may be possible to find in series, but little else could probably be found here.

While following S-601 North from P-38 in route to Ksar-es-Seghir, we stopped where ~~P-38~~ S-601 crosses a

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14 APR "CONT'D" small, rapidly flowing stream and intersect with a road which goes NE to ZOCO-TLETE-DE-TAGRAMT to see what we could find. A Podarcis hispanica was on the bridge and several MAUREMYS LEPROSA inhabit backwaters and channels to the W. of the bridge. Jeanne managed to collect one of these, #SDB 1093, 66g, 80mm C, 67 mm P, immature.

We drove on, looking in vain and somewhat in disgust, at conditions around and, finding nothing between here and TANGER, took P-38 south and E. back to where it intersects with the road to CHECHAOUÈN. 17 km W. OF TETOUAN, in a culvert along P38 at KM. 12, we collected one TARENTOLA MAURITANICA (1094, ♂, 16g, 79+59R).

Moved on into CHECHAOUÈN and made camp in the pouring rain. Later that evening, after sunset, we drove the road from CHECHAOUÈN to BAB TAZA and collected our first ANURANS. 0.5 km E. we found our first ALYTES OBSTETRICANS (1098, 4.4g, 36 mm, ♂) and then proceeded to find Hyla meridionalis at 8.7 and 9.2 km SE. Their data are:

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14 APR "CONT'D"

1100, ♂, 4.9g, 43 mm, HLSI
1101, ♂, 4.3g, 40mm, "
1102, ♂, 3.4g, 35mm, "
1103, ♀, 7.3g, 45mm, "
1104, ♀, 6.8g, 45mm, "
1105, ♂, 4.8g, 41 mm, "
1106, ♂, 4.3g, 40 mm, "

LATER, at 10.2, 10.6, AND 0.5 km SE we found 3 Bufo mauritanicus (1095, ♀, 90g, 93mm) (1096, ♂, 67g, 88mm; 1097, ♀, 190g, 118 SVL) and at 15.1 km SE we found one ♀, 13.25g, 53mm SVL Discoglossus pictus (SDB 1099).

15 APR MOROCCO: CHECHAOUÈN AND BAB TAZA ON P39

Another miserable day for people but good, it turns out, for frogs. I do, however, wish for rain at night rather than the daylight rains we've been having. It's been pretty cold, too.

We drove, first, from CHECHAOUÈN to Bab TAZA on P39 and collected one Bufo mauritanicus (SDB 1118, ♀, 110g, SVL 100mm) at 17.3 km SE. At 23.5 km SE we took an Alytes obstetricans (1108, ♀, 5.6g, 39 SVL, PHOTO) and at 18.8 km SE we found our first Moroccan Salamandra salamandra (1107, ♂, 10g, 82+65, PHOTO)

15 APR "CONT'D" At 22.2 km SE we found one Discoglossus pictus (1109, ♂, 24g, 60 SVL, PHOTO) and at 23.0 a Rana perezi (1115, ♂, 22.75g, 58 SVL) was found AOR.

Driving back from BAB TAZA, at 0.2 km SW on P39, a D. pictus (1110, ♀, 4.8g, 38 SVL) A.O.R.

From the intersection with the road to CHECHAOUÈN (ON P28 - the bypass road) we took another D. pictus (1111, ♂, 5.7g, 38 SVL) at 1.5 km NNW. 5.9 km NNW yielded another Bufo mauritanicus (1117, ♀, 46g, 76 SVL) and at 8.4 km NNW, a Hyla meridionalis (1112, ♀, 7.0g, 45 SVL) was taken.

Now we turned E. on the road to CHECHAOUÈN and at 2.0 km E AND S we found a B. mauritanicus (1116, ♀, 18.5g, 57 mm). At the campsite at the top of the hill (next to the 1st class hotel ASMAA) we found one adult H. meridionalis (1113, ♂, 4.4g, 41 SVL) then another (1114, ♀, 4.6g, 44 SVL).

16 APR MOROCCO: CHACHOUÈN TO BAB TAZA road once again.

One Psammodromus algirus (1119, ♂, 2.3g, 43 + 106 C) was collected on the road

16 APR "CONT'D" from CHECHAOUÈN to P39 (just about at the intersection) 15 km SE of CHE....
In ponds 5.8 km SE (along the roadside) of CHECHAOUÈN we took a series of
RANA PEREZI (1120, ♀, 62g, 86 SVL; 1121, ♂, 32.5g, 70 SVL; 1122, ♂, 10.5g, 48 SVL)
✓ and two HYLA MERIDIONALIS (1126, ♂, 3.5g, 39 SVL; 1127, ♂, 3.3g, 38 SVL).

Turning around at BAB TAZA after seeing nothing on the road even after an exceedingly heavy afternoon rain, we collected 3 Rana perezi (1123, 10.75g, ♂, 48 SVL; 1124, ♂, 3.1g, 32 SVL; AND 1125, ♀, 2.4g, 29 SVL) at 14.6 km SW along P39.

17 APR Escape from rain and cold, drove to MEKNÈS and spent the night at the HOTEL RIF. Nothing between CHECHAOUÈN and MEKNÈS looks too promising. I am shocked at the devastation I see around me. Agriculture has, indeed, wiped out all the original forest. There is barely a tree in sight that is not a EUCALYPTUS or a reforestation project PINUS. Depressing -- and the cold and rain are taking their toll on Jeanne and me, too. We need a change from this - hope MEKNÈS will help.

18 APR

Today we left MEKNÈS, where, incidentally, there is what must be the best campground in MOROCCO. Perhaps we'll return.

We drove first to DAYET-ER-ROUMI (≈10 km S. of KHEMISSET) where there is trout fishing and a campground with about 3 sites. At this time of year, the camp is empty but still costs 30 DH (≈$5.35) a night. The lake looks artificial and has little vegetation around it -- it's very cold and windy and we left.

After futility overtook us as we tried to find the PLAGE at SALÉ and Sundance Village Camp, we went on down the road to MEHDIYA-PLAGE where there is a 10 DH/night campground -- which will be nice when they get water and sanitary facilities -- which we left. On into KENITRA and the municipal campground there where we will camp tonight.

Since we've gotten nothing but frustration out of the past two days, we are going collecting tonight because I can hear *Bufo mauritanicus* and *Hyla meridionalis* calling in the distance. The campground in KENITRA is located

18 APR "BEHIND" the HIPPODROME (=race track) and we took the road which goes between the hippodrome and a large ARMY -- or GENDARME ROYAL -- outpost to 12.2 km E where we collected 12 HYLA whose data follow:

1128, ♂, 4.5 g, 42 SVL
1129, ♂, 4.0 g, 40
1130, ♂, 4.1 g, 40
1131, ♂, 4.7 g, 40
1132, ♂, 4.8 g, 41
1133, ♂, 4.3 g, 40
1134, ♂, 4.5 g, 40
1135, ♂, 4.3 g, 40
1136, ♂, 3.7 g, 38
1137, ♂, 4.4 g, 39
1138, ♂, 3.9 g, 38
1139, ♂, 4.2 g, 40.

19 APR MOROCCO: KENITRA, MEHDIYA-PLAGE, RABAT.

One of our initial impressions is that collecting areas in Morocco appear to be few and far between. Primary forest is non-existant and secondary forest of cork-oak, pine, or Eucalyptus usually has little or no undergrowth. Nevertheless, we find specimens here and there and at an area of what appears

19 APR to be an old fortress, we collected 5 TARENTOLA MAURITANICA (1140, ♂, 10.75g, 70+80C; 1141, ♂, 20.25g, 87+71R; 1142, ♀, 11.00g, 73+60R; 1143, ♂, 10.25g, 71+B; AND 1144, ♀, 9.0g, 71+B), 2 MACROPROTODON CUCULLATUS [PHOTO] (1145, ♂, 59g, 477+83 AND 1146, ♀, 26.5g, 386+73, with Chalcides mionecton head and shoulders in stomach), 7 BLANUS CINEREUS (1147, ♂, PHOTO, 5.9g, 183+22; 1148, ♂, 4.4g, 171+20; 1149, ♀, 3.4g, 161+19; 1150, ♂, 3.6g, 160+19; 1151, ♂, 3.3g, 153+5; 1152, ~~♀~~ ♂, 2.5g, 140+15; 1153, ?, 1.0g, 97+11) 1 CHALCIDES OCELLATUS (1154, ♂, 23.25g, 111+101) and we were quite surprised at what was here. It appears that good habitat is at such a premium that animals tend to crowd into it. (although the area didn't seem crowded -- it's just that the spacing between geckoes seemed less than in Spain.)

We looked in an area 10 km. E. of the Rabat-Sale bridge (Steve Arnold locality for Pelobates) and found two Hyla meridionalis (1155, ♂, 5.8g, 43 SVL; 1156, ♂, 4.9g, 41 SVL) and one Discoglossus pictus (1157, ♂, 17.75g, 54 SVL).

20 APR MOROCCO: KENITRA, MEHDIYA-PLAGE.

Decided to return to Mehdiya-Plage

20 APR "CONT'D" in a "clean-up" operation. But, before reaching the area, we stopped 1 km. NW of Kenitra on the beach road and collected 2 Acanthodactylus erythrurus, 1 juvenile (1159) under a rock in the open, and an adult (1158) in the Eucalyptus forest. DATA ARE: 1158, ♀, 8.4 g, 70 + 128C, 2 YOLKED FOLLICLES L, AND 2 YOLKED FOLLICLES R. AND 1159, ?, 1.6g (dead), 44 + 70 mm (died, no tissues).

At MEHDIYA-PLAGE ruins we found one Blanus cinereus (1161, ♂, 5.0g, 185+7), 3 Tarentola mauritanica (1162, died, 5.6g, 56 SVL; 1163, ♂, 7.4g, 66+55R; 1164, ♂, 15.5g, 84+86 B), and one Chalcides ocellatus (1160, ♀, 26.75g, 124+130).

And we quit early because I am not feeling well. But we are both amazed at the diversity and the number of herps that are distributed through this small area of habitat.

21-28 APR MOROCCO: RABAT

Suffering from a fever of 40°C (=104°F) and am in a hotel receiving a doctor's attention although I am unable to speak with him. Don't recall much except I perspire and sleep a lot. Not much food -- can't eat!

29 APR

MOROCCO: RABAT area.

I am well enough to travel and we cannot afford these $50/night hotel bills any longer so we've decided to return to Kenitra to find a hotel for a few more days and rebuild this trip.

We stopped for lunch 27 km S. of KENITRA on P29A and I couldn't resist the urge to turn a few rocks near a small watering hole in the Foret du MAMORA. (= pines, no cover). Under 3 rocks in the area, I found one <u>NATRIX MAURA</u> (1165, ♂, 14.25 g, 302 + 90), one <u>TROGONOPHIS WIEGMANNI</u> (1166, ♀ (?), 1.8 g, 88 + 6 C, and one <u>CHALCIDES MIONECTON</u> (1167, ♂, 4.0 g, 78 + 55 R).

1 MAY

MOROCCO: KENITRA, 10.1 km S.

We collected in the forest for about 3 hours but it was in this area, under a fallen limb from a <u>Quercus suber</u>, and in sandy soil that we turned up an <u>OPHISAURUS KOELLICKERI</u> (1168, 33.5 g, ♀, 163 + 330 C)

2 MAY

MOROCCO: BANASA RUINS (ROMAN)

The ruins are baked by the sun and we were surprised to find mainly <u>Bufo mauritanicus</u> under the many

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2 MAY "CONT'D" large and small stones we turned. In the few (3-4) areas of Fig trees, we found Tarentola mauritanica to be ≈ common and difficult to catch. We did catch one and we purchased two more (1169, ♂, 12.5g, 77+35R; 1170, ♂, 7.0g, 63+63C; 1171, ♂, 2.0g, 44+B) along with a Psammodromus algirus (1172, ♂, 2.5g, 45+80R). I collected a Natrix maura (1173) under a large, flat rock in a shady area.

3 MAY MOROCCO: ASILAH, ≈ 18 km S. on Road to RABAT.

In this area there is a bridge on the 2° road which crosses the same river as the bridge on the main highway. We collected in the area of the bridge on the 2° road and found 6 Rana perezi (1174, ♂ [died on arrival], 13g, 51 SVL) (1175, ♂, 17g, 52 SVL; 1176, ♂, 28.25g, 64 SVL; 1177, ♀, 36.50g, 70 SVL; 1178, ♀, 76g, 86 SVL; and 1179, ♀, 110g, 95 SVL), 5 Mauremys leprosa (1180, 18.5g, 45C, 38P; 1181, 23.75g, 54C, 44P; 1182, 23.0g, 51C, 42P; 1183, 35g, 59C, 50P; 1184, 32g, 57C, 47P), and 4 Hyla meridionalis (1185, ♂, 3.4g, 38 SVL; 1186, ♂, 5.4g, 45 SVL; 1187, ♂, 5.0g, 40 SVL; and one baby which wasn't tissued.

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3 MAY "CONT'D" When we returned to the INTERNATIONAL CAMPGROUND at ASILAH, we collected 6 TARENTOLA MAURITANICA (one juvenile, 1.2g, 34+36C; another juvenile, 0.9g, 33+16R; 1188, ♂, 12.5g, 75+64R; 1189, ♂, 15g, 78+44R; 1190, ♂, 11.0g, 70+83C; 1191, ♂, 10g, 69+67R) before calling it a day.

4 MAY MOROCCO: ASILAH

Spent most of today preparing last nights catch.

During the evening, we decided to go back to the area we collected last night so we went along the coastal road to 14 km. S. of ASILAH where there was a large breeding pond and where *Bufo mauritanicus* was loudly calling. Here we collected: 3 *Rana perezi* (1194, ♀, 80g, 90 SVL; 1195, 44.25g, ♀, 75 SVL; 1196, ♀, 4.8g, 36 SVL) and 2 HYLA MERIDIONALIS (1197, ♂, 3.2g, 36SVL; 1198, ♂, 4.2g, 39 SVL).

5 MAY MOROCCO: ASILAH, ≈ 14 km S. ON COASTAL ROAD IN THE VICINITY OF A CORK-OAK FOREST which is also a burial site.

We had quite good luck here with 2 PSAMMODROMUS ALGIRUS (1192, 3.4g, ♀, 48+120C; 1193, ♂, 7.8g, 68+165R), 9 BLANUS CINEREUS (1205, ♀, 6.9g, 197+23, NO

5 MAY "CONT'D" tissues; 1206, ♀, 9.9g, 218+8; 1207, ♀, 4.9g, 190+22; 1208, ♀, 2.7g, 140+17; 1209, ♀, 1.8g, 130+15; 1210, ♀, 1.6g, 125+15; 1211, ♀, 1.0g, 100+12; 1212, ♀, 1.0g, 94+11; 1213, ♂(??), 4.6g, 87+4), one PLEURODELES WALTL (1199, ♀, 27.25g, 91+94), 2 TARENTOLA MAURITANICA (1200, ♂, 9.5g, 68+77C; 1201, ♀, 7.2g, 60+57C), and 3 TROGONOPHIS WIEGMANNI (1202, ♀, 18g, 171+12; 1203, ♀, 3.5g, 113+7; 1204, ♀, 2.6g, 87+7).

About 15.7 km S. of ASILAH on the main road to RABAT (P2) we collected 5 MAUREMYS LEPROSA (1214, 12.5g, 39C, 33P; 1215, 9.5g, 39C, 33P; 1216, 25.5g, 52C, 44P; 1217, 42.75g, 65C, 56P; 1218, 61.0g, 73C, 63P).

6 MAY MOROCCO: ASILAH INTERNATIONAL CAMP

Spent most of the day processing specimens from yesterday. On the S. wall leading into the campground, I collected one PODARCIS HISPANICA (1219, 4.8g, 57+96R, ♂) late in the afternoon and one Tarentola mauritanica (1220, 7.3g, 62+70C, ♂).

7 MAY MOROCCO: INTERSECTION P38 with P37, 15.4 km SW on P37 between DAR-CHAOUI and El Mongla. We drove P37 looking for suitable collecting sites and stopped at

7 MAY this locality because a LACERTA LEPIDA crossed the road here. In the Eucalyptus forest where the soil is very dry, Jeanne found a MACROPROTODON CUCULLATUS (1221, ♂, 12g, 289+60) under a rock and also found a Bufo mauritanicus.

8 MAY MOROCCO: ASILAH INTERNATIONAL CAMP, etc.

Once again, on the camp walls, ✓ I collected a PODARCIS HISPANICA (1222, ♀, 4.1g, 59+B, with yolked follicles).

Later, on the S. wall of the Medina in Asilah, I collected 8 PODARCIS ✓ HISPANICA (1223, ♂, 4.5g, 58+52B; 1224, ♂, 5.8g, 62+123R; 1225, ♂, 4.9g, 57+100C; 1226, ♂, 4.6g, 57+110R; 1227, ♀, 3.5g, 56+95C, 2 yolked follicles L and 2 on R; 1228, ♀, 3.4g, 55+81R, 1 shelled egg R [13x8 mm] and 1 shelled egg L [13x7 mm]; 1229, ♀, 3.1g, 55+69R, 1 yolked follicle R and 1, L; 1230, ♂, 2.3g, 46+91C).

9 MAY MOROCCO: TANGER PROV., TANGER.

We're camped at the TINGIS camp (x$3/day) and decided to look at the area to the W. of TANGER.

About 7 km (AIR) W. of TANGER, Jeanne found a COLUBER HIPPOCREPIS (PHOTO, 1232, ♂, 380g, 948+240) and I, a MACROPROTODON CUCULLATUS (1233, 63g, ♂, 481+97) under a

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9 MAY "CONT'D" rock which is part of a stone wall. In the same area we saw a couple Bufo mauritanicus and cannot help but wonder where, if anywhere, Bufo bufo lives in Morocco. While looking around, we did find 2 PSAMMODROMUS ALGIRUS (1234, ♀, 2.4g, 47+109C; 1235, ♀, 4.6g, 56+134C) and then went over to the GROTTES D'HERCULE where I caught another P. ALGIRUS (1231, ♂, 2.5g, 46+70R).

Later that evening, we collected in a temporary pond just E. of TANGER proper and just W. of the TINGIS Compound. We found 3 Rana perezi (1236, 18.75g, ♂, 55 mm; 1237, ♀, 55g, 78mm; and 1238, ♀, 57g, 78 mm) and a series of 28 Pleurodeles waltl larvae. From this series, I tissued only 10 and their data are: 1239, 11g, 65+39; 1240, 3.3g, 45+37; 1241, 3.2g, 45+37; 1242, 3.6g, 47+40; 1243, 3.1g, 45+37; 1244, 3.2g, 44+36; 1245, 3.0g, 44+37; 1246, 3.7g, 46+39; 1247, 3.6g, 45+40; 1248, 2.6g, 46+11B, + PART TRANSFORMED.

At the TINGIS compound, I collected one Hyla meridionalis (1249, ♀, 7g, 50svc) in the men's room.

10 MAY MOROCCO: TANGER PROV.; TANGER

Decided to fill out the series of

10 MAY amphibians we started last night. So we returned to the pond which is just E. of Tanger on the road to Tingis campground and CAP MALABATA. We were, once again, successful as we caught 1 Pleurodeles waltl (1250, ?, 1.0g, 34+23), 1 Discoglossus pictus (1251, ♂, 1.1g, 21mm), and 7 Rana perezi (1252, ♂, 26g, 64mm; 1253, ♂, 30g, 65mm; 1254, ♂, 29g, 64mm; 1255, ♀, 34g, 68mm; 1256, ♂, 31.5g, 64mm; 1257, ♂, 42g, 77mm; 1258, ♀, 59g, 80mm).

11 MAY MOROCCO: TANGER PROV.; TANGER

We returned to the area of a few days back which was ± 7 km (AIR) W. of Tanger to collect a Tarentola mauritanica (1259, 1.0g, 33+32C) and then went to the GROTTES D'HERCULE area for another T. mauritanica (1260, 1.3g, 38+36C), a Coluber hippocrepis (1261, ♀, 9.8g, 310+73), and an Agama bibroni (1262, ♂).

12 MAY MOROCCO, TANGER PROV., TANGER TO CEUTA and return to SPAIN, Algeciras.

We took the coastal road across to Ceuta and stopped at KSAR-ES-SEGHIR for an hour to look around. From here, we collected a PSAMMODROMUS ALGIRUS (1263, ♂, 3.6g, 53+129C) and a baby TARENTOLA MAURITANICA

12 MAY "CONT'D" (1264, ?, 1.3g, 36+38C).
9.0 km S ~~of~~ KSAR-ES-SEGHIR we collected 2 Tarentola mauritanica (1265, ♂, 7.2g, 65+50R; 1266, ♀, 8.5g, 65+54R, 2 yolked follicles, 1 L, 1 R) and a Podarcis hispanica (1267, ♀, 2.3g, 52+B, 2 shelled eggs R 11x6 and 11x6, and one 12x5 left side)
9.2 km S. KSAR-ES-SEGHIR we found another P. hispanica (1268, ♂, 4.2g, 58+69R).
10.6 km S. KSAR-ES-SEGHIR Jerome found a Mauremys leprosa (1269, 400g, 149C, 123P).
We then turned NE on the road to CEUTA thru SOUK-TLETA-TAGHRAMET and 0.9 km N. of the intersection on the road to CEUTA, we found two more Tarentola mauritanica (1270, ♂) and (1271, dead on arrival, ♀, 4.8g, 59+59C).
1.9 km further N. we collected another Tarentola mauritanica (1272, ♂, 12.5g, 78+B) and a Podarcis hispanica (1273, ♀, 2.8g, 52+82C; 1 shelled egg L, 11x6 mm, 2 shelled eggs right, both 10mm x 6 mm).

13 MAY SPAIN, ALGECIRAS - SANLÚCAR

14-16 MAY SPAIN, CHIPIONA; Resting from trip and nervous ordeal caused by CASTROVIEJO at Doñana who seems to think this is his project.

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17 MAY - 23 MAY SPAIN: CÁDIZ PROV.; TARIFA, CAMPING TORRE de la Peña.

Rest + relaxation, doing laundry, drinking Sangria, eating non-canned food, having ice cream again. Recovered fully from fever, making preparations to return to Morocco to complete the project.

24 MAY MOROCCO: CHECHAOUÈN, MUNICIPAL CAMPGROUND.

We took the 1 pm ferry to CEUTA after shopping at the HIPERMERCADO (a large supermarket) for last minute food needs. Canned food is expensive and difficult to find in Morocco. The ferry ride was smooth and customs took less than an hour; one often wonders how Morocco does anything -- customs is simply a line through which cars fight for priority. I hate it -- at least all European countries have some organization at their borders. After customs, we reset our watches (Morocco is on Greenwich Mean Time, 2 hrs. behind Spain) and proceeded to Tetouán and into Chechaouén. The campground is full of ragamuffin types travelling in beat up vehicles. It seems this area is high on the list for those interested in drugs. We continue to be hassled

24 MAY "CONT'D" by children wanting cigarettes, spare change, and wanting us to buy hashhish. It appears that Hashhish is the area's only cash crop and the odor is in the air throughout the camp. Pleasant place to work -- at night the stereo tape decks go on, all with different music, the kaleidoscope of noise is a real detriment to our wanting to continue staying here, even at $0.69/day.

After putting up camp, I collected one PODARCIS HISPANICA (1274, ♀, 2.3g, 52+90C; 2 yolked follicles right, 1 left) and one TARENTOLA MAURITANICA (1275, ♀, 4.0g, 55+37R) in the large rocks to the NW of the campground. There are more but my "rubber band aim" seems to have deteriorated somewhat.

25 MAY MORÓCCO: CHECHAOUÈN, MUNICIPAL CAMPGROUND.

We survived the noisy night and have decided to collect to the E. of the campground where there is an open field with herbaceous vegetation (low-lying palm-like) and many rocks. We collected one T. MAURITANICA (1283, ♂, 6.0g, 64+34R; $T_b = 32°$, $T_A = 28.5°$) and 7 PSAMMODROMUS ALGIRUS (1276, ♀, 3.2g, 48+127R; 1277, ♀, 3.0g, 50+125C; 1278, ♀, 12.0g, 81+170R,

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25 MAY "CONT'D" P. ALGIRUS

yolked follicles; 1279, ♂, 9.6g, 73+152R; 1280, ♀, 8.2g, 70+168C; 1281, ♂, 4.6g, 57+138C; 1282, ♂, 3.7g, 53+143C).

___: CHECHAOUÈN, just E. of city at river with "terraced falls".

Collected 5 recently transformed Discoglossus pictus and all were frozen whole for tissues (= SDB 1284).

26 MAY

MOROCCO: CHECHAOUÈN, MUNICIPAL CAMPGROUND.

Today we drove along the road to BAB TAZA (SE from CHECHAOUÈN) and collected along the way. From culvert along the road we took 2 Tarentola mauritanica (1285, ♂, 7.7g, 64+64C; 1286, ♂, 63+65C, 7.6g), 2 Psammodromus algirus (1287, ♀, 3.2g, 52+124C, in tall grass; 1288, ♀, 14g, 81+173C, 4 shelled eggs [11x6, 11x7, 12x6, 12x6] on right, 4 shelled eggs [3? x 12x6, 11x7] left), and one Mauremys leprosa (1289, from river almost due S. of Chechaouèn).

Back at the campground, we collected 2 more Podarcis hispanica (1291, ♂, 2.8g, 50+59R; 1292, 2.2g, 49+59R, ♀, 1 yolked follicle right, 2 yolked on left).

→ The 2ND P. algirus was found ≈ 1 Meter up in a cork oak tree along the roadside! They are semi-arboreal!

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27 MAY Morocco: Chechaouèn, 11 km. to the SE on the road to Bab Taza.

Today we collected 4 Acanthodactylus erythrurus (1293, ♂, 11.0g, 72+72R; 1294, ♂, 4.8g, 56+108C; 1295, ♀, 3.9g, 55+96C; 1296, ♂, 10.25g, 71+128C), one Podarcis hispanica (1297, 4.0g, 56+71R, ♀, 2 shelled eggs [11x6, 11x6] right, 2 shelled eggs [11x5, 11x6] left, on an aqueduct), one Agama bibroni (1298, ♀, 12.0g, 65+88C), 3 Rana perezi (1299, ♀, 5.0g, 37; 1300, ♂, 3.8g, 35; & 1301, 4.5g, 37 mmSVL, ♀), 8 Natrix maura (1302, ♂, 60g, 442+129; 1303, ♂, 11.0g, 244+68; 1304, ♀, 4.7g, 188+47; 1305, ♀, 3.0g, 158+25B, 1306, ♂, 6.4g, 186+55, 1307, ♂, 5.5g, 184+53, 1308, ♂, 4.4g, 176+50, & 1309, ♂, 3.2g, 150+44), and 2 Mauremys leprosa (1310, 135g, C102, P83, 1311, 76g, 87C, 69P). The Natrix were all (except for the adult) in the stream shallows and backwaters; the adult was in the weeds around a flooded area. A. erythrurus were found in habitats reminiscent of La Algaida, Spain in that there was Cistus crispus and C. sp. present, along with a plant that resembles Juniperus phoeniceae. They were mostly in the bed of a dirt road, except for one which had become trapped in the aqueduct!

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27 MAY "CONT'D" CHECHAOUÈN MUNICIPAL CAMP; on our last pass through the rocky area to the NW, we got 2 TARENTOLA MAURITANICA (1312, ♂, 7.7g, 65+53R; 1313, ♂, 4.6g, 53+44R) and we prepare to get out of this noisy and somewhat (now at least) dirty compound.

28 MAY CHECHAOUÈN → AZROU, MOROCCO.

Rain, trouble w/ the windshield wipers. We were impressed by the looks of Ifrane as a vacation spot and were very happy with Azrou's Hotel du PANORAMIQUE (at 42 DH/night). The veal was good but the wine was overpriced.

29 MAY AZROU – EL KSIBA on S-303 and P24.

We left the hotel late (≈10am) and followed S-303 through Pine and Cedar forest in search of the Monkeys which are reputed to live here as well. Herpetologically we did really well.

6 km. S. ÂÏN-LEUH on S-303 we encountered our first Lacerta lepida (1314, ♂, 70g, D.O.R.) to tissue.

8 km. S., at 1680m (and near km. 18) we collected 2 LACERTA LEPIDA (1315, ♀, 6.5g, 64+102C, 1316, ♀, 10.0g, 73+129C), 2 PODARCIS HISPANICA (1317, ♂, 3.4g, 51+90R, DOA; 1318, ♂, 3.0g,

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29 MAY "CONT'D" 50+90C), 1 Tarentola mauritanica (1319, ♂, 3.9g, 51+54C), and 1 Ophisaurus koellickeri (1320, ♀, 17.25g, 148+134R) in an area of few cork oaks, strewn with granite. The Ophisaurus was under a rock in moist soil beneath the oak, the others were in and under granite rocks in this very open, heavily grazed, area.

11.3 km S. Aïn-Leuh on S-303 at 1700m (≈ km. 21) in a forest of Cedar and Oak, we collected our first Bufo viridis (1321, 12.75g, 52 mm SVL; This is only our 2ND B. viridis - the 1ST was seen at Martil but not collected), another Lacerta lepida (1322, ♀, 58g, 135+190R), and a Podarcis hispanica (1323, ♂, 2.9g, 50+61R).

41.7 km S. Aïn-Leuh on S-303, at 1430m, we chased a L. lepida (1324, ♂, 130g, 165+249C) from its culvert into a wheat field where it literally stopped from apparent exhaustion.

44.7 km S. Aïn-Leuh, at 1500m, a Psammodromus algirus (1325, ♂, 2.3g, 41+95C, DOA) and a P. hispanica (1326, ♂, 2.9g, 51+50B, DOA) were taken among the rocks.

48.2 km S. Aïn-Leuh, at 1440m, we

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29 MAY "CONT'D-2" extracted a Lacerta lepida (1327, ♂, 110g, 154+214R) which was sunning in the road from beneath a very large rock.

61 km. S. Âïn-Leuh on S-303 at 1500m, we collected a Podarcis hispanica on the walls of a culvert (1328, ♀, 2.2g, 50+B; 1 shelled egg L [13x6], 1 shelled egg R [14x5]).

30 MAY MOROCCO: EL KSIBA & VICINITY

1.9 km S. of El Ksiba municipal campground we found one Saurodactylus mauritanicus (1329, 0.5g, 27+39 C) among rocks at the base of a culvert.

3.5 km S. of El Ksiba municipal campground, at 1320 m, we collected 3 Podarcis perspicillata which appear more wary than P. hispanica. In this area, at least, they live on very steep walls and, with rubber bands, are difficult to both hit and retrieve. The 3 we collected were extracted from holes in the retaining walls and ~~may~~ have damaged toes as a result. (1330, ♂, 4.5g, 58+92C; 1331, ♀, 3.6g, 60+55R, 2 yolked follicles R; 1332, ♀, 3.2g, 60+55R, 1 yolked follicle L, 1 yolked follicle R).

4.2 km S, at 1380m, we found

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30 MAY "CONT'D" two more Podarcis perspicillata on equally steep walls (1333, ♀, 4.6g, 62+62R, 2 yolked follicles L, 2 yolked follicles R; 1334, ♀, 2.8g, 54+72R, 2 yolked L, 1R).

6.9 km S. El Ksiba municipal campground, 1540 m, yet 2 more P. perspicillata (1335, ♂, 4.6g, 58+77R; 1336, 1.8g, 43+63R) were collected.

7.1 km S. El Ksiba municip. camp. we found one Lacerta lepida beneath a rock (1337, ♀, 8.1g, 68+142C) and a P. hispanica (1338, ♂, 2.9g, 49+96C) was taken from a rock pile where it had been sunning on a rock.

31 MAY Morocco: Oukaïmeden, 2650 m.

We drove today through some rather unspectacular country between the Middle Atlas and the High Atlas. We were unimpressed with most of the journey until we left ~~Marrakech~~ Marrakech and could begin to see the High Atlas in the foreground. The last 20 km is really spectacular as one drives among the canyon walls between and through the clouds. When you reach Oukaïmeden, you are in a large meadow which has a domed spring at the N. end and is totally

1982

31 MAY "CONT'D" surrounded by mountain peaks.

8 km. N. of the meadow at Oukaïmeden, we collected one ~~MACRO-PROTODON~~ CORONELLA ~~CUCULLATUS~~ GIRONDICA (1339, ♂, 37g, 443+100 mm, ≈ DOR) at 2270 m. Jeanne got the first QUEDENFELDTIA TRACHYBLEPHARUS (1340, ♂, 2.1g, 49+B, 1 shelled egg R [11x6], 1 yolked follicle L) on a rock along the roadside.

After we set up camp, I collected along the streambed at the S. end of the meadow where camping is allowed (no sanitary facilities, but the mountain-snow-fed stream is delightful). At this time, I also decided to do a population study of ZOOTOCA ANDREANSKYI. To begin, I collected in an area along the stream's W. edge which was demarcated by a large rock at the S. end and a stone fence at the N. end. In the early evening (between 1600 and 1700) I collected 17 Z. andreanskyi and 1 PODARCIS HISPANICA; 3 HYLA MERIDIONALIS were also collected (1341, 2.0g, 30mm; 1342, 1.5g, 28mm; and 1343, 1.5g, 26mm SVL). Since I collected body temperatures & Black-bulb open shade (Ta) temperatures without associating them later with individuals, I

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31 MAY "CONT'D-2"

present these data in a simple table:

ALL Z. ANDREANSKYI except * which is P. HISPANICA

| $T_A$ (WEKSLER "RED") | $T_B$ (SHULTHEIS) |
|---|---|
| 22.5 | 25.0 |
| 19 | 27.5 |
| 19 | 25.6 |
| 20 | 27.4 |
| 19.5 | 27.2 |
| 19 | 27.2 |
| 19 | 25.5 |
| 18 | 25.5 |
| 22 | 25.6 |
| 17.5* | 28.8* |
| 19.5 | 25.0 |
| 22 | 31.8 |

and all animals were active in a rock pile under intermittently cloudy skies.

We also recorded weight, length (SV + Tail), condition of tail (C = complete, R = regenerated, B = broken), sex, and, for ♀♀, condition of follicles and/or eggs. Again, a table seems appropriate: (Z. ANDREANSKYI)

| SDB # | SEX | WT | SVL + TAIL | FOLLICLES |
|---|---|---|---|---|
| 1345 | ♀ | 3.0 | 52+55R | 1 SHELLED (L) 12×6<br>1 SHELLED (R) 13×6 |
| 1346 | ♀ | 2.8 | 54+50R | 1 YOLKED (L)<br>1 YOLKED (R) |
| 1347 | ♀ | 2.5 | 50+69R | 1 SHELLED (R) 14×6<br>1 " (L) 14×6 |
| 1348 | ♂ | 2.5 | 46+68C | |
| 1349 | ♂ | 2.3 | 47+54R | |

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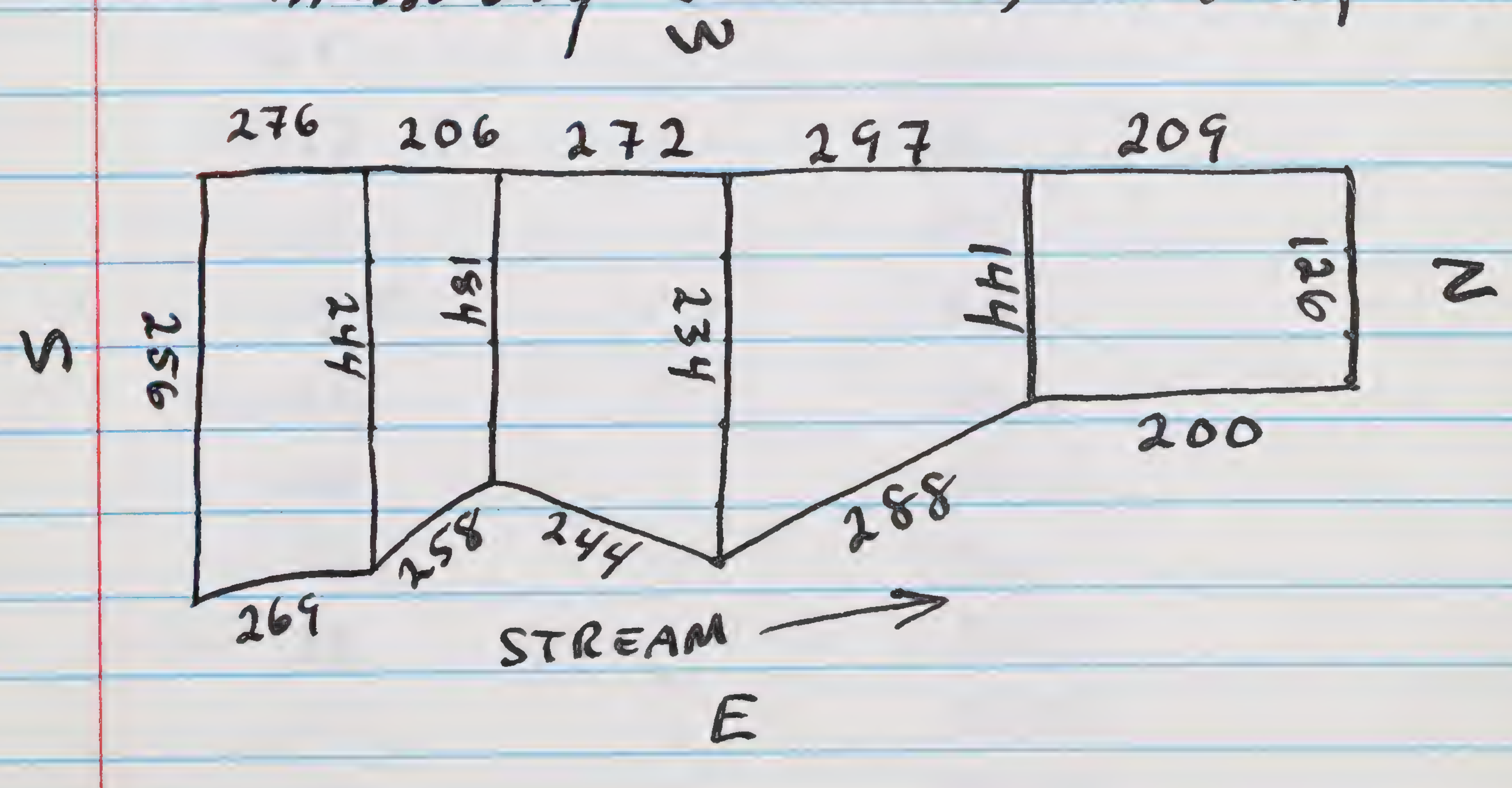
| 31 MAY "CONT'D -3" | # SDB | SEX | WT | SVL + TAIL | FOLLICLES |
|---|---|---|---|---|---|
| | 1350 | ♂ | 1.9 | 48+22R | |
| | 1351 | ♂ | 2.2 | 45+49R | |
| | 1352 | ♀ | 2.2 | 48+57R | 1 LARGE, 1 MEDIUM YOLKED FOLLICLE (R), 1 LARGE YOLKED FOLLICLE (L) |
| | 1353 | ♀ | 1.7 | 42+50R | |
| | 1354 | ♂ | 1.2 | 36+63C | |
| | 1355 | | 0.8 | 36+46C | |
| | 1356 | | 1.2 | 35+60C | |
| | 1357 | | 0.9 | 33+54R | |
| | 1358 | | 0.6 | 32+37R | |
| | 1359 | | 0.8 | 33+37R | |
| | 1360 | | 0.8 | 34+56C | |
| | 1361 | | 0.4 | 26+10R | |

and for the Podarcis hispanica:

✓ 1344 ♂ 4.1 57+74R.

1 JUNE MOROCCO: OUKAÏMEDEN, 2650 M.

We began the day by mapping and measuring (in INCHES) the study area:



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1 JUNE "CONT'D" and then we proceeded with data (and lizard) collection [from ≈1-3pm]:

ALL *ZOOTOCA ANDREANSKYI*

| $T_A$ (WEKSLER RED) | $T_B$ (SHULTHEIS) |
|---|---|
| 30 | 32.9 |
| 28 | 34.6 |
| 27.5 | 29.6 |
| 21 | 32.5 |
| 23.5 | 31.7 |
| 25 | 32.3 |
| 27.5 | 33.4 |
| 28.5 | 32 |
| 24.5 | 30.2 |
| 28.5 | 36 |
| 23.5 | 29.9 |
| 26.5 | 30.2 |
| 26.5 | 35.8 |
| 25 | 34.5 |
| 23 | 33 |
| 25 | 34 |
| 24.5 | 35 |
| 25 | 30.5 |
| 26 | 32.5 |
| 26 | 32 |
| 28 | 32.9 |
| 27 | 33.4 |
| 26 | 32.5 |

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1 JUNE "CONT'D" -2-

| $T_A$ | $T_B$ |
|---|---|
| 21 | 33.2 |
| 25 | 31.6 |
| 25 | 29.5 |
| 22.5 | 30 |

and:

| SDB # | SEX | WT. | SVL + TAIL | FOLLICLES |
|---|---|---|---|---|
| 1363 | ♀ | 2.2 | 46+71C | |
| 1364 | ♂ | 2.2 | 43+74R | |
| 1365 | ♂ | 2.2 | 50+38R | |
| 1366 | ♂ | 2.4 | 46+73R | |
| 1367 | ♂ | 2.2 | 46+51R | |
| 1368 | ♂ | 2.3 | 47+75R | |
| 1369 | ♂ | 1.9 | 46+53R | |
| 1370 | ♂ | 2.2 | 47+58R | |
| 1371 | ♂ | 2.2 | 44+73C | |
| 1372 | ♀ | 2.2 | 48+56C | |
| 1373 | ♀ | 2.0 | 50+33R | |
| 1374 | ♀ | 2.3 | 46+68R | |
| 1375 | ♂ | 2.2 | 51+19R | |
| 1376 | ♂ | 2.0 | 46+56C | |
| 1377 | ♂ | 2.2 | 47+61R | |
| 1378 | ♀ | 1.9 | 44+56R | |
| 1379 | ♀ | 2.1 | 46+39B | |
| 1380 | | 2.0 | 45+50R | |
| 1381 | | 1.4 | 42+48C | |
| 1382 | | 1.6 | 42+55C | |
| 1383 | | 0.8 | 29+40R | |

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| 1 JUNE "CONT'D -3-" | SDB | SEX | WT | SVL + TAIL |
|---|---|---|---|---|
| | 1384 | | 0.7 | 33+40C |
| | 1385 | ♂ | 1.5 | 44+08B |
| | 1386 | | 1.4 | 44+54R |
| | 1387 | | 0.9 | 36+51R |
| | 1388 | | 0.8 | 34+50C |
| | 1389 | | 0.4 | 26+24R |
| | 1390 | | 0.6 | 28+37R |
| | 1391 | | 0.8 | 36+10R |
| | 1392 | | 0.8 | 31+23B |
| | 1393 | | 0.6 | 28+40C |
| | 1394 | | 0.3 | 24+16B |
| | 1395 | | 0.4 | 26+38R |
| | 1396 | | 0.4 | 28+09R |

and, also on the periphery, was one <u>Podarcis</u> <u>hispanica</u> (1362, ♂, 2.3 g, 46+66R) whose $T_B$ = 34 while $T_A$ = 24°C.

2 JUNE MOROCCO: OUKAÏMEDEN, 2650 M.

Began this morning by taking a $T_A$ reading at 0800 of 13°C and the <u>Zootoca</u> are active (sunning). Between 1000 and 1200 hrs, we collected again and here are the data:

| $T_A$ | $T_B$ |
|---|---|
| 20 | 27 |
| 21.5 | 30.5 |

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2 JUNE "CONT'D":

| $T_A$ | $T_B$ |
| --- | --- |
| 22.5 | 31.5 |
| 21 | 32.5 |
| 21 | 35.2 |
| 21 | 34 |
| 28 | 32.8 |
| 26.5 | 32.2 |
| 25 | 33.6 |
| 24.5 | 32.5 |
| 23 | 34.4 |
| 24 | 34.8 |
| 23 | 33.2 |
| 23 | 33.0 |
| 25 | 34.0 |
| 21 | 32.4 |
| 19 | 33.0 |

DARK ROCK SURFACE 42°

LIGHT Rock SURFACE 33.5 °C

and:

| SDB | SEX | WT | SVL+TAIL | FOLLICLES |
| --- | --- | --- | --- | --- |
| 1399 | ♀ | 2.1 | 50+32R | |
| 1400 | ♀ | 2.3 | 51+70C | |
| 1401 | ♂ | 2.0 | 45+58B | |
| 1402 | ♂ | 2.1 | 44+65R | |
| 1403 | ♂ | 2.2 | 47+50R | |
| 1404 | ♂ | 2.1 | 45+58C | |
| 1405 | ♂ | 2.1 | 46+57R | |
| 1406 | ♂ | 2.1 | 45+65R | |
| 1407 | ♂ | 2.2 | 50+48R | |
| 1408 | ♂ | 1.7 | 43+55R | |

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2 JUNE "CONT'D -2"

| SDB | SEX | WT | SVL + TAIL | FOLLICLES |
|---|---|---|---|---|
| 1409 | ♂ | 2.3 | 47 + 51R | |
| 1410 | ♂ | 1.5 | 42 + 07B | |
| 1411 | | 0.5 | 29 + 23B | |
| 1412 | | 0.8 | 36 + 37R | |
| 1413 | | 0.8 | 33 + 43B | |

and, along the stream toward the pond we collected 17 *Hyla meridionalis*:

| | | | |
|---|---|---|---|
| 1414 | ♀ | 6.0g | 45 mm SVL |
| 1415 | ♀ | 7.7 | 45 |
| 1416 | ♀ | 6.5 | 43 |
| 1417 | ♀ | 4.2 | 38 |
| 1418 | ♂ | 4.6 | 40 |
| 1419 | ♂ | 2.8 | 33 |
| 1420 | | 2.1 | 30 |
| 1421 | | 1.8 | 27 |
| 1422 | | 1.7 | 27 |
| 1423 | | 2.2 | 30 |
| 1424 | ♀ | 5.6 | 42 |
| 1425 | ♀ | 6.9 | 49 |
| 1426 | ♀ | 9.7 | 49 |
| 1427 | ♂ | 5.5 | 40 |
| 1428 | ♀ | 6.8 | 43 |
| 1429 | ♀ | 7.1 | 44 |
| 1430 | ♀ | 7.3 | 45 |

and one adult *Discoglossus pictus* (1431, ♀, 3.8g, 34 mm SVL) along with 5 juveniles

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2 JUNE "CONT'D - 3" which were frozen whole. Along the stone walls which line the street into town from below the meadow, we collected 4 *Podarcis hispanica* (1433, ♂, 4.5g, 58+89C; 1434, ♂, 4.7g, 57+94R; 1435, ♂, 4.1, 55+79R; 1436, ♂, 1.4g, 40+62R) with

| $T_A$ | $T_B$ |
|---|---|
| 22.5 | 32 |
| 21 | 30.8 |
| 15 | 30.0 |
| 20 | 31.4. |

In the late evening, we collected one *Bufo bufo* (1437, ♀, 11.25g, 45 mm) on the dirt road leading to the ski lifts.

3 JUNE MOROCCO: OUKAÏMEDEN, 2650 M.

The *Zootoca* emerged today at 0730 with $T_B$ of 22°/21.5° and $T_a$ of 16°/15°. On the final "sweep" through the area, we collected only 7 animals whose data are as follows:

| | | | |
|---|---|---|---|
| 1438 | ♂ | 1.8 | 43+64C |
| 1439 | ♂ | 2.4 | 48+46R |
| 1440 | ♀ | 2.6 | 53+60C |
| 1441 | ♀ | 2.9 | 52+71C |
| 1442 | | 2.0 | 48+68C |
| 1443 | | 0.6 | 31+28R |
| 1444 | | 0.6 | 34+06B |

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3 JUN "CONT'D"

and 4 adult and 2 subadult specimens remain.

While collecting ≈ 1 km N. of Oukaïmeden, we took 4 *Lacerta lepida* (1445, ♂, 120g, 161 + 290C; 1446, ♀, 91g, 150+286C; 1447, ♂, 30g, 103 + 182C; and 1448, ♀, 32.75g, 106+141B) the 1st two of which were pryed loose from their resting places in the rock. The $T_B$ on the 2nd pair were 34.1 and 34.4 while the $T_{SA}$, respectively, were 26 and 25°C. Both were shot while sunning on the rock wall lining the N. end of the street into town! Surprisingly enough, *L. lepida* is not too uncommon at this elevation (2650m). 4 *Quedenfeldtia trachyblepharus* (1449, ♀, 1.8g, 44 + 16R, 1 shelled egg, Right side; 1450, ♂, 2.7g, 16+68R; 1451, ♀, 2.0g, 45 + 47R, 1 yolked follicle, Left; and 1452, 0.8g, ♂, 32+03B) temperatures were obtained and they are:

| $T_A$ | $T_B$ |
|---|---|
| 26 | 32.6 |
| 26 | 34 |
| 23 | 32.8 |
| 22 | 31.0 |

One *Podarcis hispanica* (1453, 2.1g, 44+79R, $T_B$ = 24.6, $T_A$ = 19) was also taken at this locality.

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3 JUN
"CONT'D-2"

About 5.8 km N. of Oukaïmeden, at 2440M, we collected 2 Psammodromus algirus (1454, ♂, 12.0g, 81+18B, $T_A$=23, $T_B$= 35.4°; and 1455, 8.8g, 70+166C) and a small series of Podarcis hispanica for which we have the following data:

| SDB | SEX | WT | SVL + TAIL | FOLLICLES |
|---|---|---|---|---|
| 1456 | ♂ | 3.2 | 52+75R | |
| 1457 | ♀ | 2.9 | 52+60R | SHELLED EGGS (L) = 2 x 10x6mm<br>SHELLED EGGS (R) = 2 x 10x6 mm |
| 1458K | ♂ | 3.2 | 53+08B | |
| 1459 | ♀ | 2.9 | 53+37R | 2 YOLKED (R), 2 YOLKED (L). |
| 1460 | | 2.3 | 49+81C | |
| 1461 | | 1.2 | 37+61R | |
| 1462 | | 2.4 | 50+34R | |
| 1463 | | 2.1 | 47+69C | |
| 1464 | | 1.3 | 39+66C | |
| 1465 | | 1.5 | 41+60R | |
| 1466 | | 1.5 | 44+10B | |
| 1467 | | 1.2 | 42+09B | |
| 1468 | ♂ | 2.7 | 52+08B | |

for general information and these temperature data:

| $T_A$ | $T_B$ |
|---|---|
| 25 | 34 |
| 21 | 31.8 |
| 18.5 | 34.4 |
| 24 | 31.1 |
| 21 | 29.5 |

1982

3 JUN "CONT'D-3"

| $T_A$ | $T_B$ |
|---|---|
| 18.5 | 33.8 |
| 18.5 | 34.2 |
| 22.5 | 34.6 |
| 24 | 31.5 |
| 20 | 33.4 |
| 20 | 32.8 |
| 20 | 29.2. |

Two Quedenfeldtia were also taken (1469, 2.8g, 48+27R; 1470, ♂, 2.6g, 48+70R, $T_A$ = 22.5, $T_B$ = 31.5) from rock surfaces.

Later in the evening, from road surfaces in OUKAÏMEDEN itself, we collected one DISCOGLOSSUS PICTUS (1453, ♂, 7.4g, 42 mm SVL) and 4 Bufo BUFO (1454, ♀, 180g, 115 SVL; 1455, 125g, 100 SVL, ♀; 1456, ♀, 95g, 94 SVL; and 1457, ♀, 85g, 86 SVL).

[NO]TE: [HE]RE, [SOM]EHOW, [BE]GINS A [DO]UBLE [NU]MBERED SERIES! (OOPS, WE DID IT AGAIN!)

4 JUNE

IN TRANSIT, OUKAÏMEDEN - EL JADIDA THROUGH MARRAKECH.

On our way down from Oukaïmeden, we were greeted by children whom we had met yesterday. They were carrying bags of lizards for which we had agreed to pay 1 DH each (≈$0.18). Included were 18 Q. TRACHYBLEPHARUS, 7 PODARCIS HISPANICA, AND 4

1982

4 JUN "CONT'D" Podarcis hispanica. We waited until we arrived at EL JADIDA to preserve these specimens; since it was late, we recorded only weights:

Q. TRACHYBLEPHARUS:

| | |
|---|---|
| 1459 | 1.7 g |
| 1460 | 1.8 |
| 1461 | 2.3 |
| 1462 | 2.3 |
| 1463 | 2.4 |
| 1464 | 2.6 |
| 1465 | 1.8 |
| 1466 | 2.2 |
| 1467 | 1.8 |
| 1468 | 2.0 |
| 1469 | 2.2 |
| 1470 | 2.0 |
| 1471 | 1.6 |
| 1472 | 0.8 |
| 1473 | 0.9 |
| 1474 | 0.6 |
| 1475 | 0.7 |
| 1476 | 0.8 |

P. hispanica:

| | |
|---|---|
| 1477 | 2.7 g |
| 1478 | 1.4 |
| 1479 | 3.0 |
| 1480 | 2.4 |
| 1481 | 2.8 |
| 1482 | 2.3 |
| 1483 | 1.3 |

P. perspicillata

| | |
|---|---|
| 1484 | 3.8 g |
| 1485 | 2.9 |
| 1486 | 2.0 |
| 1487 | 3.2 |

T. mauritanica

1488 ♂ 6.2 g 60 + 65 C

While driving along P8 toward EL Jadida, we passed through JEMAA M'TAL (roadsign name) and about 1.7 km SE of this sign, we came upon 2 kids that had tied a Coluber hippocrepis to a tree

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4 JUNE "CONT'D -2" and were torturing it. I cut it free and took heart and liver from the freshly killed (blood still flowing) body (=1458). The kids wanted (of course, they always do) money, but we just left feeling disgusted.

5 JUNE MOROCCO: EL JADIDA → TANGER.

PANIC! The Nitrogen tank is empty! We left for Casablanca early in the morning. RELIEF! Behind the GENERAL TIRE outlet on the coastal highway leading N. from CASABLANCA is a factory which produces $N_2\uparrow$, $O_2\uparrow$, and acetylene. We refilled the tank and drove on up into TANGER (WHEW!)

On the way up, 17 km N. of LARACHE on P-2, we saw one adult Testudo graeca crossing the highway. The last time we were in this area, we had found one which we photographed. They do not seem to be rare.

6 JUN MOROCCO; TANGER

Relaxing at the GRAND HOTEL VILLA DE FRANCE on the BLVD. PASTEUR. Magnificent view, good price (≈ $20/night for 2), needed day of rest.

7 JUN MOROCCO: TANGER

Camped at the TINGIS CAMPGROUND in TANGER. In the bathrooms,

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7 JUN "CONT'D"

we found 14 Hyla meridionalis:

| | | | |
|---|---|---|---|
| 1489 | 5.3 g | 40 mm SVL | ♂ |
| 1490 | 5.4 | 43 | ♀ |
| 1491 | 1.5 | 28 | ♂ |
| 1492 | 1.8 | 28 | ♀ |
| 1493 | 1.2 | 27 | ♀ |
| 1494 | 1.5 | 27 | ♂ |
| 1495 | 3.4 | 36 | ♀ |
| 1496 | 4.0 | 37 | ♂ |
| 1497 | 3.7 | 37 | ♀ |
| 1498 | 3.0 | 34 | |
| 1499 | 2.4 | 32 | |
| 1500 | 1.4 | 27 | |
| 1501 | 1.7 | 28 | |
| 1502 | 1.3 | 28 | |

Later, we looked in the culvert along the road N. of the Grottes d'Hercule and collected 3 Tarentola mauritanica:

| | | | | | $T_A$ |
|---|---|---|---|---|---|
| 1503 | ♀ | 9.3 g | 67+50R | 32.8 Tb | 28.0 |
| 1504 | ♀ | 5.3 g | 56+53C | 30.4 | 25.5 |
| 1505 | ♀ | 8.3 g | 64+52R | — | — |

8 JUN Morocco: Tanger

An intruder slashed our tent in the rear (≈12" from my head) at 3:30 am. We only heard him as he ran away. Some guarded compound! We loudly complained to the Director and then moved to Robinson Plage which is close to the Grottes

8 JUN "CONT'D" d'Hercule. The campground is expensive (10 DH/night) but, we think, probably better. After setting up camp, we tried the road to the S. which, P-2, passes through some likely-looking *Acanthodactylus* habitat.

21 km. S. TANGER (by km marker on HGHWY) we stopped in a mixed *Pinus*, *Quercus*, *Eucalyptus* forest and collected: ACANTHODACTYLUS ERYTHRURUS (1506, ♀, 6.2g, 63 + 106C), PSAMMODROMUS ALGIRUS (1507, ♂, 5.8g, 61 + 163R), and a MALPOLON MONSPESSULANUS (1508, 245g, 810 + 246 mm). The *Malpolon* contained:

*P. algirus* (1508) 5.6g, 58 + 127, HEAD WIDTH = 9 mm
" " 11g, 81 + 146, " = 12

1 km (AIR) CAP SPARTEL < In the late evening we decided to try the area (≈ 7 km W. TANGER [AIR]) from which we extracted our first Moroccan *Coluber*. We were lucky, and a series of PSAMMODROMUS ALGIRUS was collected:

| | | | |
|---|---|---|---|
| 1509 | ♂ | 11.25 g | 79 + 124R |
| 1510 | ♂ | 10.25 g | 75 + 128B |
| 1511 | ♂ | 11.25 g | 76 + 140R |
| 1512 | ♂ | 4.7 g | 56 + 125C |
| 1513 | ♂ | 3.8 g | 54 + 138C |
| 1514 | ♀ | 3.9 g | 56 + 127C, |

in which one specimen had a $T_B$ = 35°C and a $T_A$ of 27°C.

1982

-8 JUN- "CONT'D" Also in this area of Quercus coccifera, P. pinea, P. lentiscus, and hardpan, we saw a Testudo graeca.

In the dunes ≈ 0.5 km N. Grottes d'Hercule we saw an adult T. graeca about 1000 m from the coast.

9 JUN Morocco: Grottes d'Hercule at Robinson Plage.

0.4 km N. Grottes d'Hercule, in the dune area, we collected Acanthodactylus erythrurus:

| | | | | $T_B$ | $T_A$ |
|---|---|---|---|---|---|
| 1515 | ♂ | 10.25 g | 73+145C | 34.6 | 29.5 |
| 1516 | ♀ | 6.8 | 66+117C | 35.8 | 29.0 |
| 1517 | ♀ | 5.8 | 63+112C | 38.5 | 28.5 |

Souk-Tleta-Taghramet, 7 km SSW on 8303 (= 4.0 km. N. on 8303 of intersection with S-601), 150 m, and we found our first coastal Bufo bufo (1518) DOR and a DOR Macroprotodon cucullatus (1519).

10 JUN Morocco: Robinson Plage Campground.

Decided to leave Morocco today but to do some collecting first. 0.4 km N. of the Grottes d'Hercule we collected one Acanthodactylus erythrurus (1522, ♂, 10.75 g, 77+102R) and proceeded on toward Ceuta.

10.5 km S. Ksar-es-Seghir at

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10 JUN "CONT'D" 30 m elevation we collected 2 Podarcis hispanica (1520, ♀, 3.1g, 54+53R, 2 shelled eggs R, 1 shelled egg L; ~~1520~~ 1521, ♀, 3.5g, 56+75R, 2 yolked follicles L, 2 yolked follicles R).

Left Ceuta on the 1830 Ferry and camped at Torre de la Peña.

11 JUN SPAIN: CÁDIZ PROV.; TARIFA.

TRAPGEDY! Our Nitrogen tank with all our Spanish material and our 1st month's Moroccan material is empty. We must make a decision: Quit or start over. We cleaned up. PHEW!

12 JUN SPAIN: CÁDIZ PROV; TARIFA.

Our decisión to salvage what we can drives us collecting once again. We start over at Facinas road.

Río del Valle, 5.7 km S. Facinas on N-340, 0.0 m elev., one Tarentola mauritanica (1523, ♂, 79+67R, 15.25g, $T_B = 31.4$, $T_A = 27$).

Facinas, 10.7 km ~~SW~~ NE on CA-221, 10 m elev., one Mauremys leprosa (1534, 38g, 60C, 53P) and one Psammodromus algirus (1525, ♂, 10.25g, 76+28B, $T_B = 37.0$, $T_A = 30.5$). 15.1 km ~~SW~~ NE, one Natrix maura (1532, ♂, 15.5g, 285+86).

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1982



12 JUN

FACINAS, 15.7 km ~~SW~~ NE, ~~one~~ two MAUREMYS LEPROSA (1535, 11.5g, 39C, 34P, $T_B$ = 30.4 [BASKING], ~~[illegible]~~ $T_A$ = 30) (1536, ♀, 675g, 154C, 141P, $T_B$ = 33.2 [BASKING, IN WATER ≈ 15 SEC.], $T_A$ = 26) and one RANA PEREZI (1529, ♂, 15g, 52 mm) were collected.

FACINAS, 20.7 km ~~SW~~ NE on CA-221, one NATRIX MAURA (1533, 18g, 283+87, ♂) and at 27.9 km SW a PODARCIS HISPANICA (1531, ♀, 2.6g, 50+76R, ~~2SE~~ 2 shelled eggs R, 1 shelled egg left, both 11 mm x 6 mm). at 25.8 km ~~SW~~ NE a RANA PEREZI (1530, ♂, 21g, 57 mm SVL) was captured and at 25.6, 17.9, and 16.8 km ~~SW~~ NE, respectively, a series of PSAMMODROMUS ALGIRUS was taken. The following are the data:

| | | | | | TA/TB |
|---|---|---|---|---|---|
| 1526 | 200 m | ♂ | 11.75g | 75+210C | 29/34 |
| 1527 | 140M | ♂ | 9.0g | 71+132C | 29/37.8 |
| 1528 | 140M | ♂ | 6.3g | 61+100B | 29.5/37.8 |

Six genera on the 1st day is not a bad start!

AND then, at Torre de la Peña compound, a BUFO BUFO (1550, ♀, 260g, ~~130~~ 132 mm SVL) almost tripped me as I returned from the men's room.

Seven genera is even better!

1982

13 JUN SPAIN: CÁDIZ PROV.; TARIFA.

FACINAS, 5.9 km ~~SW~~ NE on CA-221, one Lacerta lepida (1537, ♂, 235g, 192+369R, 100m. elev, $T_B$=34.5, $T_A$=22.5).

17.0 km ~~SW~~ NE a Podarcis hispanica (1545, ♂, 3.5g, 52+107C, 200m. elev., 37.4° $T_B$, $T_A$=24).

20.5 km ~~SW~~ NE 3 P. hispanica (1546, ♂, 3.5g, 53+91R, 110m elev, $T_B$=34.0, $T_A$=27; 1547, ♂, 2.9g, 49+87C, 110m elev, $T_B$=34.0, $T_A$=27.5; 1548, ♂, 2.7g, 49+78R, 110m elev, $T_B$=35.2, $T_A$=27.5) and 1 P. algirus (1538, ♂, 9.4g, 72+208C, 110m elev, $T_A$=29, $T_B$=34.5°C) were collected from a stone wall and the road surface, respectively.

21.9 km ~~SW~~ NE 2 Tarentola mauritanica (1539, ♂, 11.75g, 77+36R, 30m. elev., $T_A$=29, $T_B$=35.6; 1540, ♀, 11.50g, 72+60R, 30m elev. $T_A$=27, $T_B$=32°C) collected from a retaining wall in direct sun.

22.6 km ~~SW~~ NE a Malpolon

PHOTO → monspessulanus (1544, ♂, 190g, 792+251, 40m. elev., $T_B$=39.5, $T_A$=31°C) collected from base of retaining wall and a T. mauritanica (1541, ♀, 10.5g, 69+74R, 40m. elev., $T_A$= ~~27~~ 31, $T_B$=27°C.) collected from the wall. The specimen (T.m.) contained 2 shelled eggs.

1982

13 JUN "CONT'D" FACINAS, 22.7 km ~~SW~~ NE on CA-221, 40 m. elev., one TARENTOLA MAURITANICA (1542, 11.75g, 74+62R, $T_B$ = 26.5, $T_A$=29) and one P. HISPANICA (1549, ♂, 2.9 g, 50+79R, $T_B$ = $T_A$ = 29°C) collected along a stone wall which acts as the support for a culvert.

In the evening we road drove CA-221 until about 2AM. (Sunset was ≈ 2130 hrs). To say that luck was with us would be the understatement of the year! 0.8 km W. of km. 6 on CA-221 we found the FIRST VIPERA LATASTI ever documented from the province of CADIZ! I, of course, took tissue, and PHOTOS, and he is now #1551 (♂, 20g, 263+42) somewhere in Spain. Further down the road, 0.6 km NW km. 9 on CA-221, 80 M. elev., we found a Bufo bufo (1552, ♀, 200g, 119 mm), a MACROPROTODON CUCULLATUS (1553, ♂, 18.0g, 305+64), and a HYLA MERIDIONALIS (the Hyla was calling from 2 M. up in a tree, 1554, ♂, 5.4g, 43mm). 0.5 km. W. km. 15, 200 m, we found one Bufo bufo (♂, 1555, 17g, 54mm) and one DISCOGLOSSUS PICTUS (1556, ♂, 8.8g, 44mm) A.O.R. We returned to Facinas and, on the return trip, found 2 More BUFO bufo near FACINAS (1557, ♀, 295g,

1982

13 JUN "CONT'D -2-" 129 mm AND 1558, ♀, 465g, 145 mm) along with a Natrix maura (1559, ♀, 28.75g, 320 + 79) which was AOR at the bridge crossing the Río Almodovar.

Since this evening was the first after the full moon had cycled out of the sky, one wonders if our success will now be tied to one evening every month!

14 JUN SPAIN: CÁDIZ PROV.; TORRE de la PEÑA

It is incredibly hot (35°C) today -- too hot to collect and we are tired. But night collecting is possible and we are on the FACINAS road (CA-221) looking mainly for amphibians.

0.3 km NE km. 1 on CA-221, we collected one ♀ Mauremys leprosa (SDB 1560) and drove to the recreation area on the Río Almodovar (≈ 3.3 km ~~SW~~ NE FACINAS ON CA-221). At the recreation area we found one Tarentola mauritanica (1561, ♀, 12.5g, 75 + 55 R, Shelled eggs 10x15 R and 10x15 L, only 2) on the grass. Perhaps it was cooler there than up in a tree? One Rana perezi (1562, ♂, 15g, 55 mm SVL). taken from small pond.

11.6 km W. FACINAS on CA-221,

1982

14 JUN "CONT'D" a RANA PEREZI (1563, ♀, 19.25g, 59 mm) was on the road.

At the Reservoir's backwater located 8.4 km ~~SW~~ NE FACINAS, we collected 6 RANA PEREZI:

| | | | |
|---|---|---|---|
| 1564 | ♀ | 40.75g | 74 mm SVL |
| 1565 | ♂ | 23.0 | 61 |
| 1566 | ♀ | 27.0 | 66 |
| 1567 | ♂ | 15.75 | 52 |
| 1568 | ♂ | 11.0 | 48 |
| 1569 | ♂ | 9.4 | 47 |

✓ and one HYLA MERIDIONALIS (1570, ♀, 7.3g, 48 mm).

On our return to FACINAS, we ✓ found one NATRIX MAURA (1571, ♂, 28.5g, 365 + 102) at 6.4 km ~~SW~~ NE Facinas along that portion of the reservoir which is lined with stones against the soil. All in all, a fair evening.

15 JUN SPAIN: CÁDIZ PROV.; TORRE DE LA PEÑA

The heat continues, we are getting fatigued from accumulated aggravation and simple problems. We will, however, complete this project! Night driving and food shopping will fill today.

On the return trip from Algeciras we took CA-221 for aesthetic reasons and collected a LACERTA LEPIDA

15 JUN "CONT'D" (1572, ♀, 115 g, 163 + 293 C) along CA-221 22.5 km ~~S~~ NE Facinas (= 1.5 km from C-440) and a Malpolon monspessulanus (1573, ♂, 630 g, 44.75 inches + 12.75 inches). The Malpolon was intentionally run over by my car! A little-used, but effective, technique.

Night driving the Benalup to Sidonia loop was not worth the $10.00 in gasoline it cost us. We got one Tarentola mauritanica (1574, ♀, 5.9 g, 58 + 59 C) alive on the road 5.1 km S. of Benalup on the un-numbered road which goes down to C-440. On our way home, we found a Bufo bufo (1575, ♀, 85 g, 92 SVL) 3.5 km N. of the intersection of C-440 with CA-221 (on C-440). A very windy night with little or no herp activity.

16 JUN SPAIN: CÁDIZ PROV.; TORRE DE LA PEÑA.

The heat continues but is less severe than yesterday (or maybe we're better acclimated?).

Decided to try for Acanthodactylus erythrurus along the beach to the ~~W~~ E of the compound — no sign, the beach area appears well used and trashed. We went up to the Punta Paloma road where I had success before. We were lucky and I was able to shoot 7 specimens of

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1982

16 JUN "CONT'D"

ACANTHODACTYLUS ERYTHRURUS :

| | | | |
|---|---|---|---|
| 1576 | ♂ | 11.5g | 75+145C |
| 1577 | ♂ | 10.25 | 70+147C |
| 1578 | ♂ | 11.75 | 73+151C |
| 1579 | ♀ | 7.50 | 67+91C |
| 1580 | ♂ | 5.90 | 60+122C |
| 1581 | ♂ | 8.00 | 66+126C |
| 1582 | ♀ | 3.40 | 53+85C, |

from an area of JUNIPERUS, LAGOS, and QUERCUS COCCIFERA 1.3 km along the road to PUNTA PALOMA from N-340.

17 JUN EN ROUTE, ALGECIRAS - CEUTA AND CEUTA TO ASILAH.

Decided to take the coastal road over to TANGER and then drive down P-2 to Asilah.

19.5 km E. KSAR-ES-SEGHIR we stopped at a culvert which was fed by a long, extended, concrete trough. From the culvert's edge, I shot our first coastal LACERTA LEPIDA (1583) which is a juvenile but still a L. lepida! 2 PODARCIS hispanica (1584, 2.3g, 50+70R, ♀, yolked follicles; 1585, 2.6g, 50+63R, ♂) were taken from along the trough and our first Moroccan Chalcides chalcides (1586, ♀, 9.5g, 128+133C) was sunning at the culvert's opening. Also seen, but

17 JUN "CONT'D" not collected, was a TESTUDO GRAECA.

12.8 km E. KSAR-ES-SEGHIR on S-704 we collected 2 TARENTOLA MAURITANICA from culvert (1587, ♀, 4.5g, 52+15R, D.O.A.; 1588, ♂, 9.3g, 68+71C).

9.9 km E. KSAR-ES-SEGHIR we really lucked out with our first coastal NATRIX MAURA (1589, ♂, 9.5g, 266+86) and a nice series of MAUREMYS LEPROSA (1590, no data; 1591, 57g, 71C, 62P; and 1592, ♀, 690g, 150P, ≈170C, BODY NOT SAVED.

We camped at ATLAS CAMPGROUND for the night.

18 JUN MOROCCO: ASILAH, ATLAS CAMPGROUND

Today we decided to collect in the area to the S. of here from which we had had good luck in the past.

13.7 km S. of ASILAH on P-2, at the area of the intersection with the coastal road returning to ASILAH, we collected a tiny DISCOGLOSSUS PICTUS (1593, which was frozen whole), a NATRIX MAURA (1595, ♂, 52g, 455+130), 6 MAUREMYS LEPROSA:

1596, 11.75g, P=32mm

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18 JUN "CONT'D" 1597, 26.75g, P = 46 mm
1598, 25.75, 44
1599, 26.50, 45
1600, 29.00, 47
1601, 77.00, 62,

✓ 120 *Hyla meridionalis* (frozen 5 to a tube, # SDB 1602-1605), and 6 *Rana perezi*:

| | | | |
|---|---|---|---|
| 1606 | ♂ | 18.5g | 56 SVL |
| 1607 | ♀ | 8.6g | 44 SVL |
| 1608 | | 2.9g | 32 " |
| 1609 | | 2.1g | 28 " |
| 1610 | | 2.3g | 28 " |
| 1611 | ♀ | 83.0g | 89 SVL. |

Returning to Asilah, I captured ✓ 5 *Podarcis hispanica* from the S. wall of the Medina:

| | | | | |
|---|---|---|---|---|
| 1612 | ♂ | 6.4 | 63 + 119 C | |
| 1613 | ♂ | 3.8 | 53 + 49 B | |
| 1614 | ♀ | 4.9 | 62 + 71 R | 2 yolked follicles L, 2 R. |
| 1615 | ♂ | 4.3 | 55 + 100 R | |
| 1616 | ♀ | 3.2 | 53 + 39 R | 2 shelled eggs L, 1 shelled R. |

We decided to return to Tanger and are at the Grand Hotel Ville de France -- a very nice hotel for ≈ $17.50/night for a spacious double. We are comfortable here!

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1982

19 JUN

MOROCCO: TANGER, AT THE GRAND VILLE HOTEL.

Decided to do a late afternoon drive to KSAR-ES-SEGHIR and follow S-601 South to its junction with 8303. We then follow 8303 toward CEUTA until we intersect with the coastal road which returns to KSAR-ES-SEGHIR. We were successful and the following recounts our success:

0.2 km S. KSAR-ES-SEGHIR on S-601 we collected one Tarentola mauritanica (1617, ♀, 8.6 g, 66+15R, shelled eggs, 1 L, 1 R).

4.0 km S., one PSAMMODROMUS ALGIRUS (1618, ♂, 7.5g, 66+170 C).

4.2 km S., one T. MAURITANICA (1619, ♂, 8.7g, 66+63R) and 2 NATRIX MAURA (1620, ♀, 9.7g, 232+44; 1621, ♂, 15.5g, 274+86).

10.5 km S. (intersection S-601 with 8303), one PODARCIS hispanica (1622, ♀, 3.6g, 56+78R) and one RANA PEREZI (1623, ♀, 94g, 90 SVL).

Turned N. on 8303 and 0.9 km N. of S-601 on 8303, we collected one TARENTOLA MAURITANICA (1624, ♀, 7.5g,

1982

19 JUN "CONT'D" (64+66C; 2 shelled eggs, 1L, 1R.) and one Psammodromus algirus (1625, ♀, 11.25g, 76+110R, 4 shelled eggs R, 3 shelled eggs L.).

1.0 km N. of S-601 on 8303 we collected another P. algirus (1626, ♀, 11.5g, 80+166c).

We then proceeded along 8303 until it intersects with a road which returns to CEUTA. We noted many, many Bufo mauritanicus along this road but saw no B. bufo.

12 km. E. of Ksar-es-Seghir, along the coastal road, we collected a Tarentola mauritanica (1627, ♀, 5.8g, 58+55C, AOR, 2 shelled eggs, 1 Right, 1 Left).

7.8 km. E. we collected a Rana perezi (1628, ♀, 50g, 77 SVL).

1.1 km E. we found a DOR Coluber hippocrepis (1629, ♀).

20 JUN. MOROCCO: TANGER PROV.; TANGER.

Still at the GRAND VILLE HOTEL (a real bargain!).

Decided to "fill in" our Rana perezi series tonight so we drove to 10.5 km. S. of KSAR-ES-SEGHIR on S-601 (⊥ with 8303) and collected a series whose data follow:

1982

| | | | | | |
|---|---|---|---|---|---|
| 20 JUN "CONT'D" | 1630 | ♀ | 80g | 88 SVL | |
| | 1631 | ♀ | 68 | 85 | |
| | 1632 | ♀ | 59 | 80 | |
| | 1633 | ♂ | 26.5 | 63 | |
| | 1634 | ♂ | 23.5 | 58 | |
| | 1635 | ♂ | 20.5 | 57 | |
| | 1636 | ♂ | 22 | 58 | |
| | 1637 | ♂ | 20.5 | 58 | (Left appendage deformed) |

and then returned to TANGER where we collected, just W. of TINGIS CAMPGROUND (on the CAP MALABATA Road), 5 Rana perezi:

| | | | |
|---|---|---|---|
| 1638 | ♀ | 99g | 93 SVL |
| 1639 | ♂ | 50 | 74 |
| 1640 | ♂ | 48 | 73 |
| 1641 | ♂ | 33 | 64 |
| 1642 | ♂ | 31 | 63 |

21 JUN MOROCCO: TANGER.

Day of rest

22 JUN MOROCCO, TANGER – TORRE DE LA PEÑA, CÁDIZ, SPAIN.

Decided to return to Spain and to say goodbye to MOROCCO for the last time. On the road to CEUTA, we collected one D.O.R. Coluber hippocrepis at 8.0 km W. of KSAR-ES-SEGHIR. It was too dead for tissues.

S.D. Busack 

1982

23 JUN SPAIN: CÁDIZ PROV.; TARIFA, TORRE DE LA PEÑA.
DAY FOR LAUNDRY, RESTING, ETC.

24 JUN SPAIN: CÁDIZ PROV.; VEJER DE LA FRONTERA TO BENALUP DE SIDONIA AND S. TO FACINAS.

This is the 1st day of our "recovery" operation for obtaining specimens at a close locality. 7.1 km. E. of VEJER DE LA FRONTERA, in an area of Pinus pinea, we collected one Acanthodactylus erythrurus (1644, 5.1g, 58+120C, ♀).

BENALUP DE SIDONIA, 11.6 km SE on CA-212 we took one Podarcis hispanica (1645, ♂, 3.9g, 55+67R) and at 16.9 km SE we found one Psammodromus algirus (1646, ♂, 6.0g, 63+166 C) and 3 Natrix maura (1647, ♀, 32.5g, 334+86; 1648, ♂, 33.5g, 395+95; 1649, ♀, 48.0g, 362+92).

MVZ 178419 One P. hispanica was collected and a Chalcides chalcides was seen at this locality. At 23.1 km SE, at the intersection of CA-212 with C-440, we collected ~~one~~ two Podarcis hispanica (1650, ♂, 3.1g, 49+69R) (1657, ♂, 3.7g, 53+91C) and one Rana perezi (1658, ♂, 10.5g, 46 SVL) from beneath a bridge.

1982

24 JUN 9.0 km S. intersection of CA-212 with C-440, we stopped and collected 3 Psammodromus algirus (1651, ♀, 5.4g, 62+152C; 1652, ♂, 10.0g, 72+192 C; 1653, ♀, 9.75g, 76+141 C), 2 Rana perezi (1654, ♂, 9.2g, 47 SVL; 1655, ♂, 9.2g, 45 SVL), and Mauremys leprosa (1656, 8.6g, 29P + 35C).

25 JUN SPAIN: CÁDIZ PROV.; FACINAS, CASTELLAR DE LA F^TA, TO MÁLAGA PROV. at the RÍO HOZGARGANTA, AND TO BENALUP DE SIDONIA.

We begin the day auspiciously with a Malpolon monspessulanus (1659, 92g, ♀, 595+194) which was sunning along a "famous" Lacerta lepida wall.

4.5 km E. of C-440 on CA-512 (to Jimena de la Frontera), we shot one Lacerta lepida (1660, ♂, 215g, 197+376 C).

We continue along the way to Jimena and take a small detour to Castellar de la Frontera. 11.1 km N. of CA-512 on CA-3312, we collected a Psammodromus algirus (1661, ♀, 5.9g, 64+164C, 2 yolked follicles right, 3 yolked follicles L.) and a Podarcis hispanica

S.D. Busack



1982

25 JUN "CONT'D" (1662, ♂, 2.4g, 50 + 07 B). 2 km S. of CASTELLAR DE LA FRONTERA, we took an additional Psammodromus algirus (1663, ♂, 4.3g, 55 + 132 C).

MALAGA Province -

At the Río HOZGARGANTA, where it intersects with C-3331 (km 68), we collected 3 Rana perezi (1664, ♂, 10g, 47 SVL; 1665, ♂, 14g, 53 SVL; 1666, ♀, 23.5g, 66 SVL), 1 Natrix maura (1667, ♀, 14.75g, 287 + 81), 1 Mauremys leprosa (1668, ♂, 46g, 70C + 57P), 1 Podarcis hispanica (1669, ♀, 2.2g, 46 + 57R, 2 yolked follicles left), and 1 Psammodromus algirus (1670, ♂, 5.3g, 62 + 100R). We continued along C-3331 to a point 0.8 km S. of km marker 56 (= 3.6 km S. of the Cádiz Province line) where we caught a Rana perezi (1671, ♀, 48.5g, 81 SVL).

CÁDIZ PROVINCE

9.3 km NNE of Benalup de Sidonia on CA-P-2112 Jeanne found a Lacerta lepida (1672, 28.5g, 102 + 193 C, ♂) under a rock. We also saw a Chalcides chalcides in this area but were not able to capture it.

S. D. Busack



1982

26 JUN — No collecting: Day of rest.

27 JUN — We have decided that today will be the last for us in this area. We'll concentrate on "filling in" those "close" locality comparisons we need.

At 11.7 km S. of VEJER DE LA FRONTERA on N-340 we came across a recent D.O.R. Coluber hippocrepis from which I took tissues but did not salvage the body.

Benalup de Sidonia, 1.9 km SE, I took a Tarentola mauritanica (1674, ♂, 4.6g, 55+58c) which completes another genus comparison.

At Barbate de Franco, we took the dirt road to the W. (beyond the beach) in search of an Acanthodactylus locality. We needn't have worried — about 2 km along this elevated coastal path we found 5 Acanthodactylus erythrurus:

| | | | | |
|---|---|---|---|---|
| 1675 | ♂ | 9.6g | 72+144c | |
| 1676 | ♂ | 6.6 | 65+132c | |
| 1677 | ♂ | 7.4 | 65+131c | |
| 1678 | ♀ | 7.4 | 66+101R | 3 large yolked follicles; 1L+2R. |
| 1679 | ♂ | 5.7 | 62+120c | |

28 JUN — Tarifa — Cádiz — Sevilla.

1982

29 JUN SEVILLA — GRANADA — CASTELL DE FERRO.

30 JUN CASTELL DE FERRO — ALBACETE —

1 JUL ALBACETE → SAN MARTÍN DE PIMPOLLAR (ÁVILA PROV.).

At our campground SW of Isso (ALBACETE PROV.) along the watercourse where the PANTANO DE TALAVE flows into the PANTANO DE CAMARILLAS, we saw L. lepida and M. leprosa active but took neither.

Later in the day we progressed to ÁVILA Province and into the Sierra de Gredos. Along the RÍO TIETAR, at C-502, 8.5 km SSE of ARENAS de SAN PEDRO, we stopped in the searing heat to collect 3 PODARCIS hispanica (1680, ♂, 3.5g, 52+91R; 1681, ♂, 4.6g, 58+103R; 1682, ♂, 4.0g, 57+72R) and one NATRIX MAURA (1683, ♂, 5.9g, 189+52).

Further along our route, we passed 1.8 km. N. of CUEVAS DEL VALLE where I shot a LACERTA SCHREIBERI (1684, ♂, 44.5g, 118+116R) which was sunning itself on a bridge abuttment.

In the area between SAN MARTÍN de PIMPOLLAR and the main highway (C-502), and 1 km in either direction along C-502, in the rain, we collected:

1982

| | | SBB # | | | |
|---|---|---|---|---|---|
| 1 Jul "cont'd" | *Triturus marmoratus* | 1685 | 2.7g | 47+40 | ♂ |
| | *Alytes obstetricans* | 1686 | 7.4g | 44 | ♀ |
| | | 1687 | 6.3g | 40 | ♂ |
| | | 1688 | 5.8g | 39 | ♀ |
| | | 1689 | 6.6g | 41 | ♀ |
| | | 1690 | 6.6g | 39 | ♀ |
| | *Discoglossus pictus* | 1691 | 9.9g | 48 | ♀ |
| | *Rana perezi* | 1692 | 36.0 | 72 | ♀ |
| | | 1693 | 12.5 | 49 | ♂ |
| | | 1694 | 7.4 | 43 | ♂ |
| | | 1695 | 3.7 | 34 | ♂ |
| | *Bufo bufo* | 1696 | 120 | 97 | ♀ |
| | | 1697 | 76 | 91 | ♂ |
| | | 1698 | 64 | 83 | ♂ |

2 July — Ávila Prov., Sierra de Gredos, Navalperal de Tormes area, entrance to Cinco Lagunas trail.

We spent about 1 hour here in late afternoon (≈ 3-4 pm) and collected 6 *Lacerta monticola*:

| | | | | Shelled eggs: |
|---|---|---|---|---|
| 1699 | ♀ | 10.25g | 78+78R | 4R, 3L |
| 1700 | ♀ | 5.7 | 74+90R | — |
| 1701 | ♂ | 10.0 | 75+120R | — |
| 1702 | ♀ | 8.8 | 71+87R | 4R, 3L |
| 1703 | ♀ | 7.2 | 76+78R | 4R, 3L |
| 1704 | ♀ | 9.3 | 77+76R | 4R, 3L |

and then returned to camp. Later

1982

2 July "cont'd" in the evening we drove to C-502 from camp at San Martín. Alive along this road we collected one Natrix maura (1705, 285g, 655 + 154, ♀).

3 July San Martín de Pimpollar – Manzanares el Real.

Before leaving San Martín, we collected 6 Podarcis hispanica:

| | | | |
|---|---|---|---|
| 1706 | ♂ | 3.0g | 49+92C |
| 1707 | ♀ | 1.8g | 46+65R |
| 1708 | ♂ | 4.6g | 63+79R |
| 1709 | ♂ | 4.2g | 59+95R |
| 1710 | ♂ | 2.5g | 50+90C |
| 1711 | ♂ | 2.4g | 50+80R |

and continued along to Ávila. 19.0 km WSW (at bridge, C-502) of Ávila, I shot one Lacerta lepida (1712, ♂, 47g, 120+226C) from a bridge abuttment. This bridge is "covered" with P. hispanica. So common are they that it's difficult to walk about the supports without scaring them into hiding.

4 July Manzanares el Real — Mayorca, Valladolid.

At (above) the campground in Manzanares el Real, we collected 3 Psammodromus algirus:

| | | | |
|---|---|---|---|
| 1713 | ♀ | 4.0g | 56+37B |
| 1714 | ♂ | 5.4g | 57+104C |
| 1715 | ♂ | 5.2g | 56+138C |

1982

4 JULY "CONT'D" and then continued along our route to LEÓN.

At MAYORCA, VALLADOLID PROV., at the RÍO CEA, we found 5 PODARCIS BOCAGEI:

| | | | |
|---|---|---|---|
| 1716 | ♂ | 4.3 g | 57+86 R |
| 1717 | ♀ | 3.7 | 55+96 C |
| 1718 | ♀ | 1.8 | 45+81 C |
| 1719 | ♀ | 2.2 | 48+67 C |
| 1720 | ♀ | 2.2 | 52+71 C |

on the bridge, and ~~Joanne~~ found 2 NATRIX MAURA (1721, ♂, 8.4g, 233+62; 1722, ♀, 70.0g, 483+108) in the shallow water near the bridge.

5-6 JULY IN LEÓN.

7 JULY LEÓN - OVIEDO - SALAS - GIJON.

Visited the locality just outside (NW) of SALAS (OVIEDO PROV.) which I have collected CHIOGLOSSA LUSITANICA from in the past. We were lucky, 13 specimens were taken and labelled

MVZ 178398-178410 B - N. Their respective weights are: B, 0.9g; C, 0.9g; D, 0.8g; E, 3.8g, ♀; F, 3.1g, ♀; G, 0.7g; H, 0.5g; I, 0.6g; J, 0.8g; K, 0.9g; L, 0.6g; M, 0.8g; N, 0.7g.

8 JUL GIJON - ~~JACA~~ BILBAO

9 JUL BILBAO - JACA

10-11 JUL AT ORDESA NATIONAL PARK.

S.D. Busack

1982



12 JUL SPAIN: HUESCA PROV; AT AREA NEAR (=VALLEY BELOW) BAÑOS DE BENASQUE.

After a late afternoon rain, we walked along the river which runs through the valley. From this river bank were collected:

Bufo bufo (1723, ♀, 51g, 84 SVL) and 5 EUPROCTUS ASPER:

| | | | | |
|---|---|---|---|---|
| JV 1 | 5.2g | 63+50 | ♀ | |
| 2 | 6.4 | 69+49 | ♂ | (4 TESTES) |
| 3 | 7.6 | 69+51 | ♂ | (5 TESTES) |
| 4 | 7.0 | 68+47 | ♂ | (MULTIPLE TESTES) |
| 5 | 9.0 | 71+60 | ♀ | |

13 JUL BAÑOS de BENASQUE, CONTINUED.

While walking along the bank of the river in the early afternoon, Jeanne and I collected one COLUBER VIRIDIFLAVUS (JV6, 125g, 847+255, ♀) and, later, we found 2 PODARCIS MURALIS (1724, ♂, 4.2g, 56+68R; 1725, ♀, 4.2g, 58+103R, 2 yolked follicles R, 1 left) close to camp.

14 JUL AS ABOVE.

Collected 3 more P. MURALIS (1726, ♂, 6.1g, 64+121R; 1727, ♂, 5.5g, 64+84R; 1728, ♂, 5.9g, 62+113R) and measured one more ♂, 6.1g, 59+106R.

1982

15–17 JUL AT THE BAÑOS de BENASQUE.
IN THE HOSTAL. VERY NICE.
18–20 JUL EN ROUTE TO PARIS.
21 JUL EN ROUTE TO N.Y. + ROCHESTER.

Busack, S.D.

Visnow, J.A.

1983

Spain

Morocco

# 1983

# SPAIN - MOROCCO

S.D. BUSACK
J.A. VISNAW

NOTES:

IN SPAIN, THE ROAD TO:

- BENALUP FROM C440 IS CA212 AND IS 22.9 km LONG.
- ALCALÁ DE LOS GAZULES FROM BENALUP DE SIDONIA IS CA-P-2112.
- LOS BARRIOS FROM ALCALÁ DE LOS GAZULES IS C-440

S.D. Busack
w/
J.A. Visnaw



10 MAR 1983 SPAIN: CÁDIZ PROVINCE; PUERTO REAL

Arrived yesterday at Málaga and the REGENTE CAR person had our CITROËN waiting for us. After paying him for the insurance, we went to MARBELLA and stayed at the HOTEL BELARCOS - a nice hotel that was too expensive ($33.00/double) and at which the food was less than great. We re-arranged the car, had breakfast on the road today and drove to CÁDIZ for the liquid Nitrogen and then to Jerez de la F^TA for the formalin. After getting ourselves equipped, we drove down the Jerez - Puerto Real road and located a pond where we searched for amphibians. Although the pond was pretty dried up compared with last year, we did find Pleurodeles waltl, Pelobates cultripes larvae, a Natrix maura, and a Bufo bufo in the vicinity. Under debris on the west side of the pond (located on the ~~W~~ NW side of the road, 2.5 km E. of Puerto Real) we also found 11 transformed Pleurodeles waltl:

| | | | |
|---|---|---|---|
| SDB | 1743 | 4.7 g, | 53 mm SVL + 42 tail |
| | 1744 | 4.7, | 54 + 52 |
| | 1745 | 4.3, | 55 + 47 |

| | | |
|---|---|---|
| 1746 | 3.5 g | 47 + 30 |
| 1747 | 2.4 | 45 + 38 |
| 1748 | 2.6 | 46 + 36 |
| 1749 | 2.7 | 45 + 39 |
| 1750 | 3.0 | 46 + 41 |
| 1751 | 2.8 | 45 + 38 |
| 1752 | 2.8 | 48 + 38 |
| 1753 | 2.0 | 44 + 38 |

The larvae (SDB 1742) were saved whole as 4 specimens in 3 tubes. Nine *Pelobates cultripes* were saved (1754) and the *Natrix maura* (1756) [34 g, ♀, 354 + 96] was as well.

15.7 km N. of P^to^ Real we found a *Bufo bufo* under a rock near a culvert (1755, 89 g, 87 mm SVL)

5.8 km E. of P^to^ Real (Road) in an area of *Pinus pinea* we captured a D.O.R. *Malpolon monspessulanus* (38 g, 480 + 150 mm)

11 - 12 MAR IN TRANSIT from hotel GUADACORTE (CAMPO DE GIBRALTAR) to CHEFCHAOUEN, MOROCCO, after shopping at the HIPERMERCADO CONTINENTE outside of Algeciras. In CHEFCHAOUEN, TÉTOUAN PROVINCE, MOROCCO, we stayed at the Hotel CHAOUEN for ≈ $10^00^/day/double. The hotel is nice, has adequate parking, a restaurant, and hot showers. The weather is, I believe,

Busack
1983



12 MAR unseasonally hot. Its about 25°C and the countryside up to this point has been very dry.

Today we'll begin our search for in this area last year we found Alytes obstetricans, Salamandra salamandra, and the other more common amphibians.

CHEFCHAOUEN, 3.2 km NE on 8304 to Oued LAOU after driving 4.5 km N. of CHAOUEN on the CHAOUEN-TÉTOUAN highway.

Discoglossus pictus (SDB 1757) [♂, 12g, SVL = 48 mm] in a vernal pond which will be dry very soon.

CHEFCHAOUEN, ≈ 5 km S. on loop road ~~which~~ which connects CHAOUEN with P28, in a vernal pond, we collected the following:

| | | SVL | WT | SEX |
|---|---|---|---|---|
| 1758 | Rana sp. | 49 | 12.75 | ♂ |
| 1759 | Natrix maura | 257+64 | 11.5 | ♀ |
| 1760 | " | 237+69 | 10.5 | ♂ |
| 1761 | " | 172+45 | 5.2 | ♂ |
| 1762 | " | 173+42 | — | ♂ |
| 1763 | Hyla meridionalis | 46 | 4.6 | ♂ |
| 1764 | " | 40 | 4.5 | ♂ |
| 1765 | " | 40 | 3.5 | ♂ |
| 1766 | " | 36 | 3.4 | ♂ |

Busack
1983



12 MAR CONT'D.

| | | | | |
|---|---|---|---|---|
| 1767 | Discoglossus pictus | 39 | 5.9 | ♂ |
| 1768 | " | 45 | 9.0 | ♀ |
| 1769 | " | 31 | 3.4 | ♂ |
| 1770 | " | 35 | 4.0 | ♂ |
| 1771-1775 | " | JUVENILES FROZEN WHOLE | | |

(1771 = 4, 72 = 3, 73 = 2, 74 = 3, 75 = 2)

13 MAR

MOROCCO: TÉTOUAN; CHEFCHAOUEN

Drove to a pond 8.2 km S. of the city on the loop road which connects to P28 and collected:

| | | | | |
|---|---|---|---|---|
| 1776 | Agama bibroni | 110 + 157 C | 50g | ♂ |
| 1777 | Natrix maura | 260 + 73 | 13.5 | ♂ |
| 1778 | Psammodromus algirus | 33 + 76 C | 1.0g | |
| 1779 | Discoglossus pictus | 29 | 2.4g | |
| ~~1780~~ | ~~Bufo mauritanicus~~ | | | |
| 1781 | Hyla meridionalis | 45 | 6.0g | ♂ |

In another area 12.6 km S. we found a specimen of the ubiquitous Bufo mauritanica (♂, 1780, 48 SVL, 11.5g) and, at 12.8 km S. a H. meridionalis was found (~~1780~~, 1782, ♂, 40 SVL, 4.5g).

Later, during the evening, we went back to the pond over 7.2 km S. CHEFCHAOUEN on the loop road and collected 7 Hyla meridionalis and 1 Bufo bufo.:

| | | | |
|---|---|---|---|
| 1783 | H. meridionalis | 6.1g, | 45 SVL |
| 1784 | | 5.3g, | 42 SVL |

Busack
1983



12 MAR CONT'D.

| | | | | |
|---|---|---|---|---|
| 1767 | Discoglossus pictus | 39 | 5.9 | ♂ |
| 1768 | " | 45 | 9.0 | ♀ |
| 1769 | " | 31 | 3.4 | ♂ |
| 1770 | " | 35 | 4.0 | ♂ |
| 1771-1775 | " | JUVENILES FROZEN WHOLE | | |

(1771 = 4, 72 = 3, 73 = 2, 74 = 3, 75 = 2)

13 MAR

MOROCCO: TÉTOUAN; CHEFCHAOUEN

Drove to a pond 8.2 km S. of the city on the loop road which connects to P28 and collected:

| | | | | |
|---|---|---|---|---|
| 1776 | Agama bibroni | 110 + 157 C | 50g | ♂ |
| 1777 | Natrix maura | 260 + 73 | 13.5 | ♂ |
| 1778 | Psammodromus algirus | 33 + 76 C | 1.0g | |
| 1779 | Discoglossus pictus | 29 | 2.4g | |
| ~~1780~~ | ~~Bufo mauritanicus~~ | | | |
| 1781 | Hyla meridionalis | 45 | 6.0g | ♂ |

In another area 12.6 km S. we found a specimen of the ubiquitous Bufo mauritanica (♂, 1780, 48 SVL, 11.5g) and, at 12.8 km S. a H. meridionalis was found (~~1780~~, 1782, ♂, 40 SVL, 4.5g).

Later, during the evening, we went back to the pond area 7.2 km S. CHEFCHAOUEN on the loop road and collected 7 Hyla meridionalis and 1 Bufo bufo.:

| | | | |
|---|---|---|---|
| 1783 | H. meridionalis | 6.1g, | 45 SVL |
| 1784 | | 5.3g, | 42 SVL |

| | | | |
|---|---|---|---|
| 13MAR "con'd" | 1785 | Hyla meridionalis | 4.1 g, 37 SVL |
| | 1786 | " | 4.4, 40 " |
| | 1787 | " | 4.4, 38 " |
| | 1788 | " | 5.8, 42 " |
| | 1789 | " | 4.1, 38 " |
| | 1790 | Bufo bufo | —— |

14MAR Morocco: Tétouan; Chefchaouen

5.6 km S. on loop road, in area of damp area which must have been a pond earlier this year - This year, to date, seems much drier than last -- we collected under rocks in damp soil:

| | | |
|---|---|---|
| 1792 | Chalcides chalcides | 11.5 g, 136+174 C |
| 1793 | Discoglossus pictus | 2.8 g, 32 |
| 1794 | " | 11.0 g, 50, ♂ |
| 1795 | Natrix maura | 21.0 g, 332+94, ♂ |

Decided to leave this area today and to drive over to Kenitra along P-28 to Ouezzane and then on to Kenitra by way of the road to Rabat.

31 km N. Ouezzane on P28 I shot a Lacerta lepida on a culvert. It was accompanied by a larger specimen but, by itself, affords a nice example of the lepida in this part of N. Africa. SDB 1791 weighed 60 g and was 135 + 308 complete tail, mm in life.

14 MAR "CONT'D" MOROCCO: KENITRA; MEHDIA PLAGE

Along the beach area in what was once a castle or other such building, we turned rocks in the ruins. Among those specimens we collected were:

| | | | |
|---|---|---|---|
| 1796 | CHALCIDES MIONECTON | | 6.6g, 90+41R |
| 1797 | " | | 3.5g, 79+12R |
| 1798 | MALPOLON MONSPESSULANUS | | 12.5g, 278+80 |
| 1799 | BLANUS CINEREUS | | 1.8g, 126+13 |
| 1800 | " | ♀ | 2.7g, 152+18 |
| 1801 | " | | 4.8g, 180+19 ♂ |

15 MAR MOROCCO: KENITRA; KENITRA

Decided to go to Rabat today and to drive through the Forêt du Maamora on our way. At a location 11.8 km E. of Kenitra we found two Psammodromus algirus:

SOB 1802 6.0g ♀ 63+148 C

SOB 1803 7.6g ♂ 64+167 C

and then proceeded to the Chellah in Rabat where we collected a series of Lacerta perspicillata:

| | | | |
|---|---|---|---|
| 1804 | 1.9g | 42+56 R | |
| 1805 | 2.0g | 45+15 I | |
| 1806 | 1.8g | 43+6 I | |
| 1807 | 2.0g | 42+70 C | |
| 1808 | 1.4g | 39+61 C | |
| 1809 | 2.1g | 45+68 C | |
| 1810 | 3.7g | 59+17 B | ♀ |

Busack 

15 MAR

| | | | |
|---|---|---|---|
| 1811 | 1.7g | ♂ | 44+68C |
| 1812 | 6.4g | ♂ | 66+50R |
| 1813 | 1.4g | | 40+22B |

"CONT'D"

These lizards are quite common the walls (exterior) of the Chellah. When disturbed, they simply disappear into the mortar which has long-since disintegrated.

We stopped at a depressed-low area 6.6 km E. of the Rabat-Salé bridge in hopeful search of *Pelobates* or *Pleurodeles*. While we saw neither, we did collect a nice series of *Hyla meridionalis* tadpoles (SDB 1818)

On our return to Kenitra we again stopped at 27.1 km E. of Kenitra to collect:

| | | | |
|---|---|---|---|
| SDB 1814 | NATRIX MAURA | 6.0g | 165+42 |
| 1815 | " | 3.7g | 151+41 |
| 1816 | " | 13.5g | 256+75 |
| 1817 | " | 22.5g | 310+93. |

16 MAR MOROCCO: KENITRA: MEHDIA PLAGE

Once again we scoured the bricks strewn about the ruins on the N. end of the Beach bearing this name. And, once again, we collected BLANUS CINEREUS:

| | | | |
|---|---|---|---|
| SDB 1819 | 3.0g | 145+16 | ♂ |
| 1820 | 3.0g | 146+15 | ♂ |

16MAR "CONT'D" MOROCCO: TÉTOUAN; ASILAH

Returned to our 1982 site about 14 km S. of ASILAH. And, with some assistance from the natives, were very successful.

| | | | | | |
|---|---|---|---|---|---|
| SDB | 1821 | Blanus cinereus | ♂ | 0.8g | 89 + 10 |
| | 1822 | " | | 1.5g | 121 + 13 |
| | 1823 | " | ♀ | 5.0g | 180 + DAMAGE |
| | 1824 | " | ♂ | 3.5g | 158 + 18 |
| | 1825 | " | ♀ | 3.6g | 166 + 19 |
| | 1826 | " | ♀ | 3.4g | 160 + 19 |
| | 1827 | " | ♀ | 4.9g | 178 + 21 |
| | 1828 | Tarentola mauritanica | | 6.4g | 62 + 59 c |
| | 1829 | Pleurodeles waltl | | 49g | 106 + 102 |
| | 1830 | " | | 34g | 95 + 95 |
| | 1831 | " | | 25.25g | 88 + 80 |
| | 1832 | " | | 12.75g | 75 + 63 |
| | 1833 | " | | 20.5g | 84 + 101 |
| | 1834 | " | | 15.75g | 80 + 79 |
| | 1835 | " | | 36.0g | 97 + 95 |
| | 1836 | " 3 LARVAE | | FROZEN WHOLE | |
| | 1837 | " " | | | |

HAPPY BIRTHDAY TO JEANNE!

17 MAR MOROCCO: TÉTOUAN; ASILAH

Returned to 14 km S. and collected a series (SDB 1838) of Bufo mauritanicus tadpoles before moving up the road toward DAR CHAOUI.

17 MAR "cont'd" MOROCCO: TÉTOUAN; DAR CHAOUI

3.7 km S. DAR CHAOUI, shot from E wall of a culvert, we got one (SDB 1839) LACERTA LEPIDA, ♂, 75g, 136+310C and 4.0 km S. DAR CHAOUI I found a juvenile (SDB 1840) L. lepida, 2.4g, 48+30B, under a large piece of cardboard in an area of EUCALYPTUS leaves. 2.9 km S. DAR CHAOUI, under a rock close to a southern-facing stone wall, we found a BLANUS CINEREUS (SDB 1858, ♂ 3.6g, 169+19) which was sort of orange in color.

5.8 km S. DAR CHAOUI, in a Eucalyptus forest, we collected two Macroprotodon cucullatus:

SDB 1861 4.8g, 182+35
1862 6.1g, 223+38,

both of which had Psammodromus algirus in their stomachs. The large, SDB 1862, one had only the tail of P. algirus but 1861 contained the entire lizard. Two BLANUS CINEREUS:

SDB 1859 2.9g 151+17
1860 3.9g 175+21 ♂

were also found beneath rocks in this same area.

11.5 km S. DAR CHAOUI we collected

17 MAR "CONT'D" one TARENTOLA MAURITANICA beneath rocks in a hillside area which was very wet to the W. but very dry on the E. side (SDB 1841, 8.0g, 66+69 c). Agama bibroni also seen in this area.

18 MAR MOROCCO: TÉTOUAN; ASILAH

Returned to area 14 km. S. and collected the catch produced by the locals which was:

| | | | | | |
|---|---|---|---|---|---|
| SDB | 1850 | ♂ | BLANUS CINEREUS | 4.0g | 171+22 |
| | 1851 | ♂ | " | 2.6g | 169+20 |
| | 1852 | ♀ | " | 4.2g | 188+5R |
| | 1853 | ♀ | " | 5.0g | 177+20 |
| | 1854 | ♀ | " | 1.4g | 115+9 |
| | 1855 | ♀ | " | 1.5g | 126+15 |
| | 1856 | ♂ | " | 2.1g | 139+16 |
| | 1857 | ♂ | " | 4.4g | 171+21 |

Returned to SW wall of Medina and collected PODARCIS HISPANICA:

| | | | | | |
|---|---|---|---|---|---|
| SDB | 1842 | 1.5g | 39+70 c | | |
| | 1843 | 2.8g | 46+88 c | | |
| | 1844 | 3.3g | 52+94 c | | |
| | 1845 | 3.3 | 53+81 c | ♀ | |
| | 1846 | 3.4 | 54+64R | ♀ | 1 YOLKED FOLLICLE R<br>2 YOLK. FOLL. L. |
| | 1847 | 4.4 | 55+103R | ♂ | |
| | 1848 | 5.4 | 57+108 c | ♂ | |
| | 1849 | 4.3g | 54+80R | ♂ | |

Busack

1983-11

19 MAR MOROCCO: TANGER; AREA AROUND CITY

Went to area NW of the city and searched for Malpolon, Coluber, etc. which we thought might live in the area. We were successful at a low area just a little N of the Grotte d'Hercule where we found one NATRIX MAURA (SDB 1863, 3.9g, 187+49) and a small MACROPROTODON CUCULLATUS (SDB 1864, 4.0g, 211+33).

9 km SE TANGER, on the main TANGER-TÉTOUAN HIGHWAY, we collected a D.O.R. COLUBER HIPPOCREPIS (SDB 1865)

INTERSECTION 601 WITH 8302, 8.4 km SW we collected one DISCOGLOSSUS PICTUS (SDB 1866, ♂, 4.0g, 35mm) under a rock and two PSAMMADROMUS ALGIRUS (SDB 1867, 2.5g, 49+113C; 1868, 10.75g, 79+119R) in area around cultivated fields. It is cold ~~[illegible]~~ and windy with some raindrops - not enough to do much good.

INTERSECTION 601 w/ 8302, 1.5 km S on 601 we found one NATRIX MAURA (SDB 1869, 3.4g, 163+44) and one PODARCIS HISPANICA (SDB 1870, ♂, 3.1g, 50+98C) under rocks.

Busack 1983-12

19 MAR "cont'd" INTERSECTION 601 w/ 8303, 0.4 km NE on 8303 we found one Blanus cinereus (♀ SDB 1871, 8.5 g, 230 + 27) under a rock in an uncultivated strip between two cultivated areas. 3.7 km NE 601 on 8303 we found one Discoglossus pictus (SDB 1872, ♂, 4.0 g, 35 mm SVL) and, at 3.8 km NE 601 on 8303, we found a Macroprotodon cucullatus (SDB 1873, 29.5 g, 389 + 76). 16.5 km NE 601 on 8303 a member of the ubiquitous species, Bufo mauritanicus, (SDB 1874, 8.8 g, 44 SVL) was collected.

Ksar-es-Segur, at 16.4 km E. on the road, we collected another B. mauritanicus (SDB 1875, 84 g, 95 mm SVL). 21 km E. of Ksar-es-Segur, we collected an A.O.R. Hyla meridionalis (SDB 1876, ♀, 9.8 g, 50 mm SVL).

Tanger, in the ponds just E. of the center of the town, we collected one newly-transformed (SDB 1877, 6.2 g, 61 + 55) and 6 larval (SDB 1878, LOT) Pleurodeles waltl. Also from the pond we collected 4 Hyla meridionalis (SDB 1879; 1880, ♀, 6.5 g, 43; 1881, ♀, 5.4 g, 44; 1882, ♂, 5.8 g, 45).

Busack 1983-13

20 MAR MOROCCO: TÉTOUAN; VICINITY OF INTERSECTION OF S704 WITH 8303 (CEUTA - TANGER ALTERNATE ROUTES).

5.4 km S. of the intersection of S704 with 8303 on 8303 we collected in an area used as a water supply by local inhabitants. The cistern itself was about 1M in depth and about 2M square, enclosed by rock walls and a plant-material ceiling. The frogs were under rocks near the cistern and in the stream leading from it.

| | | | WT. (g) | SVL |
|---|---|---|---|---|
| RANA CF PEREZI | SDB 1883 | ♂ | ~~13.5~~ 22 | ~~57~~ 60 |
| " | 1884 | ♂ | 13.5 | 51 |
| DISCOGLOSSUS PICTUS | 1885 | ♂ | 12.0 | 51 |
| " | 1886 | ♂ | 11.5 | 50 |
| " | 1887 | ♂ | 17.0 | 56 |
| " | 1888 | ♀ | 9.1 | 46 |
| " | 1889 | ♀ | 7.3 | 42 |
| " | 1890 | ♂ | 8.0 | 42 |

3.9 km N. 601 on 8303 we were extremely fortunate in being able to collect a BUFO bufo (SDB 1897, 150g, 117 mm) A.O.R. under a drizzling rain.

Between 5.2 km N. of 601 and Tleta TAGRAMET on 8303 we collected

20 MAR "CONT'D"

| | SDB | | | |
|---|---|---|---|---|
| Discoglossus pictus | 1892 | ♀ | 13.25 | 50 |
| " | 1893 | ♀ | 12.5 | 45 |
| " | 1894 | ♀ | 9.0 | 48 |
| " | 1895 | ♂ | 5.1 | 38 |
| " | 1896 | ♀ | 3.3 | 33 |

and at 5.4 km. S. of 5704 on 8303 we took a series of tadpoles (1897).

0.4 km N. 8303 on 601 we collected an AOR Natrix maura ♀ (SDB 1898) which weighed 44.5 g and measured 437 SVL + 97 mm TAIL.

Upon our return to TANGER we stopped at the ponds just E. of the city and collected Pleurodeles waltl on the roads encircling the pond. It was raining very hard and 5 adults were up and about.

| | | | | |
|---|---|---|---|---|
| Pleurodeles waltl | 1899 | ♀ | 22 g | 98+84 |
| | 1900 | ♂ | 15.5 | 80+98 |
| | 1901 | ♂ | 6.9 | 64+53 |
| | 1902 | ♂ | 5.3 | 56+51 |
| | 1903 | | 1.9 | 40+36 |

21 MAR Left Tanger, drove to CEUTA, took the Ferry to Algeciras, and drove to TORRE DE LA PEÑA campground (outside of TARIFA) where we set up camp, had a nice dinner and prepared for the Spanish leg of the trip.

Busack

1983-15

22 MAR

:

212 = BENALUP TO C-440

0 = ALCALÁ TO LOS BARRIOS

P2112 = BENALUP TO ALCALÁ

SPAIN: CÁDIZ; FACINAS.

Light rain in the evening and we decided to drive the FACINAS - C-440 - CA212 (= ROAD TO BENALUP DE SIDONIA) to Vejer de la Frontera route.

FACINAS, on the road N. to C-440 we collected the following Bufo bufo:

| MILEAGE | JV # | SEX | SVL | WT |
|---|---|---|---|---|
| 0.4 km N | 7 | ♀ | 79 | 57g |
| 0.9 km N | 8 | ♂ | 70 | 39g |
| 5.5 km N | 9 | ♂ | 67 | 31g |
| 8.1 km N | 10 | ♂ | 71 | 39g |
| 8.5 km N | 11 | ♂ | 71 | 31.25g |
| 8.8 km N | 12 | ♂ | 77 | 39g |
| 9.8 km N | 13 | ♂ | 81 | 53g |
| 15.4 km N | 14 | ♀ | 98 | 105g |
| 17.0 km N | 15 | ♀ | 100 | 110g |
| 17.4 km N | 16 | ♀ | 95 | 82g |

along with DISCOGLOSSUS PICTUS (SDB 1904, ♀, 12g, 51 SVL) 11.7 km N., SDB 1905, ♂, 3.7g, 34 SVL 15.8 km N, AND SDB 1906, ♂, 3.2g, 31 SVL at 21.2 km. N. SALAMANDRA SALAMANDRA (JV 20, 17g, 93+53 mm NO TISSUE) was collected at 17.9 km N. and two PELODYTES PUNCTATUS (JV21, ♂, 4.3g, 40 SVL

22 MAR "CONT'D" and JV22, ♀, 3.4g, 35 mm SVL) were found at 22.3 and 22.5 km N, respectively.

24.2 km N. FACINAS we turned W. onto C440 toward Alcalá de los Gazules. This road is being diverted to make way for a reservoir which will be in use in 1985 if all goes well. 0.6 km W. of the intersection of C-440 with the road to FACINAS, we collected SALAMANDRA SALAMANDRA (JV 23, ♀, 115+59, 42g) and 4.2 km W we found yet another (JV24, ♂, 119+70, 42.5g) alive on the road.

15.9 km N. of the Facinas road - C440 intersection is CA212 which runs NW to Benalup de Sidonia, We collected *Hyla meridionalis* as follows: (MILEAGE SE OF BENALUP)

MILEAGE CORRECTED 23MAR 1983 SDBusack

| MILEAGE | SDB # | SEX | SVL | WT |
|---|---|---|---|---|
| 23.3 ~~15.6~~ km SE | 1907 | ♂ | 40 mm | 5.8 g |
| 23.0 ~~15.3~~ | 1908 | ♀ | 40 | 5.2 |
| 22.8 ~~15.1~~ | 1909 | ♀ | 44 | 7.0 |
| 22.5 ~~14.8~~ | 1910 | ♀ | 44 | 7.5 |
| 22.2 ~~14.5~~ | 1911 | ♀ | 46 | 5.8 |
| 22.0 ~~14.3~~ | 1912 | ♀ | 43 | 5.7 |
| 21.8 ~~14.1~~ | 1913 | ♀ | 39 | 4.8 |
| 21.7 ~~14.0~~ | 1914 | ♂ | 42 | 5.9 |
| 21.6 ~~13.9~~ | 1915 | ♀ | 38 | 3.8 |

Busack

1983-17

22 MAR "CONT'D"

| MILEAGE | # | SEX | SVL (mm) | WT (g) |
|---|---|---|---|---|
| 21.4 ~~13.7~~ km SE | 1916 | ♀ | 44 | 6.5 |
| 18.2 ~~10.5~~ km SE | — | — | — | — |

four Bufo bufo as follows:

| | | | | |
|---|---|---|---|---|
| 19.5 ~~11.8~~ km SE | JV26 | ♀ | 115 | 180 |
| 14.2 ~~6.5~~ " | 27 | ♂ | 66 | 25.5 |
| 13.7 ~~6.0~~ " | 28 | ♀ | 83 | 60 |
| 9.6 ~~1.9~~ " | 29 | ♀ | 102 | 120 |

and Salamandra salamandra was seen D.O.R. ~~9.0~~ 16.7 km SE and one collected (JV 30, ♀, 29g, 111+60 mm) 19.0 km SE. 23.6 km up this road is the intersection with CA-P2112 (Benalup to Alcalá)

Benalup de Sidonia, 14.2 km S. on the road to Vejer de la Frontera, we collected our first Pelobates cultripes for the year. It is SDB 1917, ♀, 80 mm SVL and 62g.

23 MAR Torre de la Peña – Vejer de la Frontera – Benalup de Sidonia – Alcalá de los Gazules – Facinas.

Benalup de Sidonia, 12.5 km S. (SDB 1918, 73 mm SVL, 34.5g), 12.1 km S. (SDB 1919 ♂, 37 mm SVL, 5.6g), 11.0 km S. (SDB 1920 ♂, 66 SVL, 38g), + 9.6 km S. (SDB 1921, 69 mm SVL, 36g, ♂) were found Pelobates cultripes alive on the road. One Bufo calamita (JV 31 ♂, 43.5g, 75 mm SVL)

23 MAR "CONT'D" was found 3.1 km S. of Benalup de Sidonia.

Benalup de Sidonia, 10.9 km NNE on CA-P2112, we found one Salamandra salamandra (JV32, ♀, 42.5g, 123+65) and 11.3 km NNE we found a Pelodytes punctatus (JV 33, ♀, 41 SVL, 4.8g).

Alcalá de los Gazules, 19.8 km SE on C-440, we collected one Bufo bufo (JV34, 56 mm SVL, 16g).

39.5 km SE of Alcalá de los Gazules in the intersection to Facinas. We turned SW onto the Facinas road and collected as follows:

Hyla meridionalis

| | | | | |
|---|---|---|---|---|
| 2.3 km SW | # SDB 1922 | ♂ | 39 mm SVL | 3.8g |
| 5.3 " | 1923 | ♂ | 43 | 5.4 |
| " " | 1924 | ♀ | 44 | 6.4 |
| " " | JV 36 | ♀ | ~~44~~ 41 | 6.0 |
| " " | 37 | ♂ | 36 | 3.6 |
| " " | 38 | ♂ | 41 | 4.2 |
| " " | 39 | ♀ w/eggs | 47 | 8.0 |

Discoglossus pictus

| | | | | |
|---|---|---|---|---|
| 7.7 km SW | SDB 1925 | ♀ | 58 | 18.0 |
| 8.7 " | 1926 | ♂ | 51 | 14.5 |
| 11.1 " | 1927 | ♂ | 54 | 15.0 |
| 12.7 " | 1928 | ♀ | 48 | 11.5 |

Busack 1983-19

23 MAR "CONT'D"

| | SDB | | | |
|---|---|---|---|---|
| 17.2 km SW | 1929 | ♀ | 47 mm | 10.5g |
| FACINAS | 1930 | ♂ | 29 | 2.6g |

*TRITURUS MARMORATUS*

5.3 km SW JV35 ♂ 60+43mm 5.2g

25 MAR PUERTO REAL, 3.6 km E. at the pond where we collected *Pleurodeles* on 10 MARCH, we found 3 *NATRIX MAURA* under debris in the now totally-dry pond.

BENALUP DE SIDONIA, 18.0 km ESE on CA-212, we found two *CHALCIDES CHALCIDES* where one had escaped last year! They are SDB 1931 + 1932 and ♂, 4.8g, 97+115C and ♂, 5.1g, 96+112C, respectively.

26 MAR FACINAS, 19.3 km NE at an area of cork-oak harvesting, we collected (Jeanne mostly, my back is really sore) 6 *BLANUS CINEREUS* under granite-like rocks:

| SDB # | SEX | SVL + TAIL (mm) | WT (g) |
|---|---|---|---|
| 1933 | ♂ [♂] | 151 + 20 | 3.2 |
| 1934 | ♂ [♂] | 172 + 20 | 4.4 |
| 1935 | ♂ [♀] | 152 + 20 | 3.0 |
| 1936 | ♀ [♀] | 163 + 8 | 4.0 |
| 1937 | ♂ [♀] | 160 + 20 | 3.4 |
| 1938 | ♀ [♂] | 170 + 6 | 4.9 |

27-28 MARCH HOTEL just N. of P^TO del CABRITO, 2**, 2200 PTAS/night for a double, nice hotel but very expensive restaurant. Stayed here where I could soak my back in hot water 3x/day. It seems that I pulled a muscle in my back -- pulled it good! -- and hope it will recover enough in time for us to be successful in our collecting.

29 MAR FACINAS, the road NE to C-440 once again. Since my back is not thoroughly recovered, we decided to try some shooting from the car today. We got LACERTA LEPIDA as follows:

| Km. NE FACINAS | # | SVL + TAIL | SEX | WT (g) |
|---|---|---|---|---|
| 12.5 | JV40 | 175+260R | | 150 |
| 13.5 | 41 | 177+335C | | 150 |
| 16.9 | 42 | 145+296C | | 82 |
| 17.1 | 43 | 168+336C | | 120 |
| 21.1 | 44 | 175+204R | | 135 |
| 3.3 | 48 | 67+115C | ♂ | 7.2g |

and a series of TRITURUS MARMORATUS at 20.1 km NE of FACINAS. Their data:

| SDB | | | |
|---|---|---|---|
| 1939 | ♂ | 4.3g | 57 + 47 |
| 1940 | ♂ | 4.8g | 60 + 49 |
| 1941 | ♂ | 5.0g | 65 + 48 |
| 1942 | ♀ | 5.2g | 60 + 51 |

| | | | | |
|---|---|---|---|---|
| 29 MAR | JV 45 | ♀ | 8.0 g | 70 + 58 |
| "CONT'D" | 46 | ♀ | 5.5 | 62 + 52 |
| | 47 | ♂ | 6.8 | 62 + 50 |

30 MAR Benalup de Sidonia, 6.9 km NNE on CA-P2112, in last year's productive Blanus and Macroprotodon spot, we collected:

MACROPROTODON CUCULLATUS

| | | | |
|---|---|---|---|
| SDB 1943 | ♂ | 13.0 g | 287 + 60 |
| 1944 | ♂ | 31.5 g | 351 + 65, |

BLANUS CINEREUS

| | | | |
|---|---|---|---|
| 1945 | ~~♂~~ ♀ | 7.8 g | 212 + 20 |
| 1946 | ♂ | 5.3 g | 187 + 20 |
| 1947 | ~~♂~~ [illegible] | 6.8 g | 211 + 25, |

and one Triturus marmoratus (JV 49, ♂, 5.6 g, 63 + 48 mm). Two adult Elaphe scalaris were seen.

Benalup de Sidonia, 10.6 km NNE another Blanus cinereus (SDB 1948, ♀, 7.5 g, 207 + 8) was collected under a rock next to a fence post. 11.0 km NNE, we found a Salamandra salamandra (JV 50, 1.4 g, 33 + 9 INC) under a rock. 11.1 km NNE, Jerome found a Discoglossus pictus (SDB 1949, ♀, 40 SVL, 6.5 g) ~~was~~ on the edge of a pond and then seined a series of larval amphibians (JV 51) from that pond.

JV 51 = MVZ 186080 P. w.
186081 P. c.
186082 H. m.

Busack



31 MAR SPAIN: CÁDIZ PROVINCE; FACINAS.

7.7 km NE, we collected a Blanus cinereus (SDB 1950, ♂, 173+22, 4.9g) beneath a rock in an area recently plowed over.

12.1 km NE, in a gently-sloped field which ends with a natural cork-oak / fern area, we collected:

Macroprotodon cucullatus

SDB 1953, ♂, 21g, 333 + 63

Blanus cinereus

SDB 1951, ♂, 6.6g, 186+24

SDB 1952, ♂ ♀, 2.9g, 151+19

Discoglossus pictus

SDB 1954, ♀, 3.0g, 33 mm SVL

Salamandra salamandra

JV 52 ♂, 26g, 96+53

53, 1.2g, 35+21.

and several Psammodromus hispanicus were seen in the area.

1 APR Benalup de Sidonia, 22.9 km SE on CA 212 we collected 1 Bufo bufo (JV 54, ♂, 39 mm SVL, 6.0g) and one Pelodytes punctatus (SDB 1955, ♂, 34mm, 3.8g) under debris along the road. One Natrix maura was seen here under windy and cold conditions and intermittent rain.

21.1 km SE of Benalup, Jeanne

1 APR "CONT'D" captured a *Coluber hippocrepis* (SDB 1956, ♀, 325+87, 10.0g).

20.2 km SE of Benalup, Jeanne found a *Macroprotodon cucullatus* (SDB 1957, ♂ 420+78, 46.5g) under a rock on the roadside.

20.1 km SE, we found a *Lacerta lepida* (JV57, ♂, 58+100C, 4.6g) under a piece of bark adjacent to a cactus fence, and found a *Bufo bufo* (JV55, ♀, 110 SVL, 160g) under a piece of conglomerate or sedimentary rock.

20.0 km SE, another *Bufo bufo* was collected (JV56, ♀, 105 SVL, 180g).

19.1 km SE, Jeanne found her second *Macroprotodon cucullatus* (SDB 1958, ♂, 376+66 mm, 37.5g) under a rock alongside the highway.

2 APR Benalup de Sidonia, Cádiz, Spain

6.7 km NE on CA-P2112

we collected a *Malpolon monspessulanus* (SDB 1959, ♂, 340g, 909+291mm) and stopped 6.9 km NE to search the forested area to the E of the road. Under small rocks in the vicinity of *Quercus suber* we collected a series of *Blanus cinereus* as follows:

2 APR "CONT'D"

| | | | | |
|---|---|---|---|---|
| 1960 | 7.8g | 216 + 24 | |
| 1961 | 5.8g | 191 + 22 | ♀ |
| 1962 | 6.2g | 198 + 24 | |
| 1963 | 2.0 | 127 + 16 | |
| 1964 | 1.5 | 110 + 13 | ♂ |
| 1965 | ~~3.3~~ 12.0 | 230 + 26 ~~156 + 7~~ | |

and observed an ELAPHE SCALARIS under the bark of a fallen oak tree. A LACERTA LEPIDA (JV 59, ♀, 225g, 202+251R) was also collected under a large branch from a Quercus suber.

11.4 km NE of Benalup we found a COLUBER HIPPOCREPIS beneath a stone atop a culvert (SDB 1966, ♂, 110g, 695 + 195 mm) and another Blanus cinereus (JV 58, 3.3g, 156+7) under a stone by a fence post.

LACERTA LEPIDA were collected from 12.1, 12.6, and 14.2 km NE of Benalup and their data are:

| | | | |
|---|---|---|---|
| JV 60 | ♀ | 200g | 190 + 393 C |
| 61 | ♂ | 150g | 172 + 280 R |
| 61a | ♂ | 260g | 211 + 326 R |

12.9 km NE, we collected another CHALCIDES CHALCIDES (SDB 1967, ♂, 8.2g, 112 + 123 C).

3 APR Day of rest at TORRE de la Peña, TARIFA, Spain

Busack 1983-25

4 APR SPAIN. CÁDIZ PROV; FACINAS
1.2 km N. Psammodromus hispanicus seen. Seem to prefer more open areas than P. algirus.
12.3 km N. we found one Lacerta lepida (JV 63, 3.8g, 55+71B), saw many P. hispanicus, and took temperatures on 2 Blanus cinereus:

$T_B$ = 17.6°C   $T_a$ = 15°C   substrate in shade
20.4°C   14.5°C   sun

12.9 km N. Facinas another Lacerta lepida (JV 62, ♀, 75g, 148+265C) was collected.
16.1 km N we found a Coronella girondica (SDB 1968, ♂, 31.5g, 401+104) under a rock and a Blanus cinereus under another ($T_B$ = 22.5°, $T_A$ = 18.4, rock in sun).
20.1 km N. of Facinas several P. hispanicus were seen and two B. cinereus were examined for temperature:

| $T_B$ | $T_A$ | |
|---|---|---|
| 19.2 | 19.8 | SUN |
| 22.0 | 20.0 | SHADE |

5 APR SPAIN: CÁDIZ PROVINCE: BENALUP DE SIDONIA
5.9 km NE on CA-P-2112 we collected a ♀ Lacerta lepida (19.5g, 85+181C) [JV64] and 13.9 km NE we found another

5 APR LACERTA LEPIDA (JV 65, 370g, 224 + 412C) under rocks along the roadside where it ran to hide after we shot at, and missed, the beast.

ALCALÁ DE LOS GAZULES, 4.3 km E. on C-440 we collected a baby LACERTA LEPIDA (JV 66, 6.6g, 65 + 114C) while turning rocks in our search for P. waltl. 18.8 km E. we turned rocks at the base of a stone wall and Jeanne was successful in capturing two COLUBER HIPPOCREPIS (SDB 1969, ♀, 12.5g, 344 + 84mm; SDB 1970, ♀, 120g, 772 + 193mm) while I stood by and lamented the fact that my back was still mending. 35.2 km E., at the place we (the Maxwells and I) used to call "Honeycomb rock", Jeanne and I saw a TRITURUS MARMORATUS in the temporary pond behind the rock.

6 APR TARIFA - MÁLAGA - TARIFA to pick up DAVID GREEN.

7 APR SPAIN: CÁDIZ PROV.; FACINAS

a short day today, partially to break DMG in to the locality, we went to ~~and~~ an area 16.2 km N. of FACINAS to collect. We found one ~~COLUBER~~ CORONELLA GIRONDICA (SDB 1971, ♂, 22.5g,

I'M LOSIN' MY MIND!

Busack 1983-27

7 APR "CONT'D" 383 + 100 m) and collected one Blanus cinereus (JV 67, ♂, 4.4 g, 164 + 21) under stones beneath the ferns which are quite close to the W. side of the road. The area has an ~~pine~~ oak tree different from Quercus suber and Jeanne feels this may be where Coronella girondica lives. Could be -- tough to base anything definitive on fewer than 5 specimens.

Green collected: Bufo bufo, B. cinereus, Salamandra salamandra (LARVA) (MVZ 186079), Rana perezi here

Since I have my alotted "quota" of Blanus cinereus now, I've decided to try to get some body temperatures. We recorded the following:

PSAMM. ALGIRUS common, P. HISPANICA common

| $T_B$ | $T_A$ | ROCK IN SUN OR SHADE |
|---|---|---|
| 24.5 | 23.4 | SUN |
| 26.2 | 26.3 | SUN/SHADE |
| 23.4 | 21.6 | SHADE |
| 26.6 | 24.8 | SUN |

8 APR SPAIN: CÁDIZ PROV.; FACINAS

17.1 km N., we found one Lacerta lepida (JV 68, ♀, 160 g, 175 + 277 R) on a retaining wall.

22.1 km N., Jeanne found a Macroprotodon cucullatus (JV 69, ♂, 16.0 g, 301 + 58 mm) and we proceeded up the road to a place named

Busack 1983-28

8 APR "CONT'D" , on the "FIRESTONE HISPANIA MAPAS DE CARRETERAS 9 C-9", on the building SAN CARLOS DEL TIRADERO. The old building has a stone fence around its S. side and just below that fence, and to the W., is a depression which collects, among other things, water in the rainy season. Under one rock on the E. edge of that depression I found 3 NATRIX NATRIX (SDB 1972, ♀, 6.6g, 194+50, FED UPON 2 S. SALAMANDRA and 1 D. PICTUS; SDB 1973, ♂, 6.6g, 197+48; SDB 1974, ♂, 9.0g, 238+65). On the S. side of the barbed-wire fence just S. of the bldg, Jeanne found another N. NATRIX (SDB 1975, ♂, 15.2g, 289+81, PHOTO)! 4 NATRIX NATRIX in one day! Before this, I had collected only 2 last year, and 3 in all my time in CÁDIZ! All the more amazing, was that there were 2 NATRIX MAURA under that rock so the 2 species are syntopic as well as sympatric!!

In the field across the road from SAN CARLOS... we continued turning stones in very wet areas

Busack 1983-29

8 APR "CONT'D" and found another MACROPROTODON CUCULLATUS (JV 70, ♂, 14.2g, 283+59mm) and 3 CHALCIDES CHALCIDES (SDB 1976, ♂, 11.25g, 141+56R; SDB 1977, ♂, 8.4g, 117+147c; SDB 1978, 8.0g, 111+130c). Temperatures were taken from 2 BLANUS:

| $T_B$ | $T_A$ | under Rock — in — |
|---|---|---|
| 28.5 | 22.0 | SUN |
| 25.6 | 22.0 | SUN |

AFTER DINNER, we decided to drive up to Benalup de SIDONIA and at 9.8 km NE ~~NE SW~~ we collected SDB 1979, a PELOBATES CULTRIPES (♂, 35.5g, 69 SVL) and noted a D.O.R. ELAPHE SCALARIS 6.0 km SW. [=MVZ 186072, SDB 10/83]

BENALUP DE SIDONIA, 4.3 km NE ON CA-P2112, another PELOBATES CULTRIPES (SDB 1980, ♂, 12g, 45mm) was collected. RANA PEREZI were collected at 11.1 and 11.9 km NE.

ALCALÁ de los GAZULES, 7.4 km E. on C-440, a D.O.R. ELAPHE SCALARIS (NO TAG MVZ 186072, 15g, 320+51) was collected. 8.7 km E, a BUFO bufo (JV 71, ♂, 96g, 92mm SVL) collected A.O.R. on C-440 and 33.3 km E. on C-440

8 APR "CONT'D" two *Triturus marmoratus* (SDB 1981, ♀, 4.6 g, 55 + 44 ; SDB 1982, ♀, 6.2 g, 63 + 52) were collected from the pond behind honeycomb rock.

9 APR SPAIN: CÁDIZ PROV.; FACINAS ROAD at SAN CARLOS DEL TIRADERO

Another *Macroprotodon cucullatus* (JV 72, 21.75 g, ♂, 326 + 60 mm) and 4 *Discoglossus pictus* were collected. Three *Blanus* temperatures were recorded:

| $T_B$ | $T_a$ | Rocks in |
|---|---|---|
| 26.4 | 22.0 | SUN |
| 26.4 | 22.0 | " |
| 26.0 | 21.5 | " |

10 APR SPAIN: CÁDIZ PROV.; FACINAS

20.2 km. N., we saw one *Elaphe scalaris* and one *Blanus cinereus* ($T_B = 27.0°$, $T_A = 25°C$, under rock in sunshine).

11 APR SPAIN: CÁDIZ PROV.; BENALUP DE SIDONIA

0.9 km NE. of Benalup, *Psammodromus hispanicus* was common, *Hyla meridionalis* (JV 73, ♀, 45 SVL, 6.8 g) was collected along with 7 *Pelodytes punctatus* (for D.M. Green).

11 APR "CONT'D" 2.6 km E. Benalup de Sidonia, Jeanne found 2 Macroprotodon cucullatus (JV74, ♂, 41.5g, 425+75; JV 75, ?, 4.6g, 208+36) under rocks in a pasture-like area. In the same area, we also collected 2 Chalcides chalcides (SDB 1983, 1.8g, ♂, 65+54R; SDB 1984, ♀, 31.5g, 190+145R, stomach contained a grasshopper) and saw 3 others under rocks. Psammodromus hispanicus is also common in this area.

7.4 km NE of Benalup de Sidonia, on the road after dark, we collected one Pelobates cultripes (SDB 1985, ♀, 47g, 72mm SVL) and collected another (1986, ♂, 66g, 80mm SVL) 4.5 km NE of Benalup de Sidonia.

12 APR SPAIN: CÁDIZ PROV; FACINAS

10.3 km N, under rocks in a semi-forested area where some land-moving is in progress, we found 2 more Coronella girondica (SDB 1987, ♀, 28.75g, 405+95, fed upon a Podarcis hispanica; SDB 1988, 51g, 503+133) under rocks in the disturbed area and took the following Blanus cinereus temperatures:

$T_B = 20.3$ $T_A = 19.5$ Rock in Sun

$T_B = 25.7$ $T_A = 21.2$ "

12 APR "CONT'D"

$T_B$ = 23.0 $T_A$ = 19.2 Rock in Sun
$T_B$ = 25.2 $T_A$ = 22.4 Rock in Sun

Psammodromus hispanicus is common in this area.

Benalup de Sidonia, 7.9 km SE on CA-212, there is a stream which flows across (under) the road and which meanders into several ponds off to the S. of the road. By walking along this stream, close to the road, we collected 5 Hyla meridionalis for David Green. 8.0 km SE we found one Discoglossus pictus A.O.R. (SDB 1989, 1.9g, 25 SVL) and, at 8.2 and 8.7 km SE, we found Bufo bufo A.O.R. (JV 76, ♀, 75g, 86 SVL; JV 77, ♀, 89g, 93 SVL).

Benalup de Sidonia, 4.2 km N on CA-P-2112, we found one Pelobates cultripes (SDB 1990, ♂, 51g, 78 mm SVL) alive on the road.

Drove through Benalup de Sidonia, turned S. onto the road which, eventually, goes to Vejer de la Frontera, and, 12.0 km. S. of Benalup along this route, found another Pelobates cultripes (SDB 1991, ♂, 13.2g, 50 mm SVL). 13.2 km S. along

Busack 1983-33

12 APR "CON'TD" this same route, we found yet another Pelobates cultripes (SOB 1992, ♂, 5.3g, 35mm SVL).

13 APR SPAIN: CÁDIZ PROV; TORRE DE LA PEÑA.
Used today to preserve, repack, rearrange, etc. in preparation for our return trip.

14 APR. DROVE FROM TARIFA – ALCALÁ DE LOS GAZULES – UBRIQUE – GRAZALEMA – RHONDA.
Spent the evening in RHONDA

15 APR DROVE FROM RHONDA – GRANADA
Spent afternoon and evening in Granada.

16 APR GRANADA

17 APR Drove from GRANADA TO MÁLAGA
PACKED

18 APR MÁLAGA – MADRID – N.Y. – S.F.O.
(whew)

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